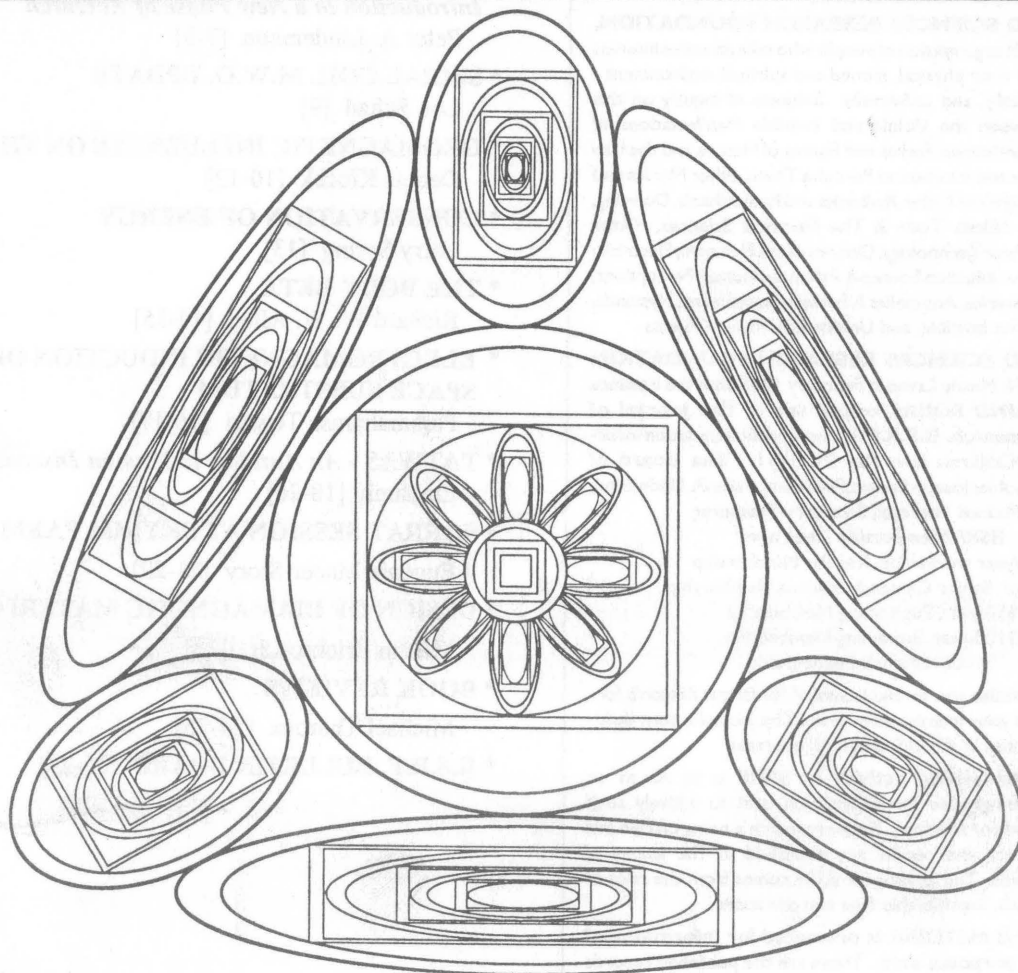


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TATWAS

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THE LAKHOVSKY RADIO-CELLULAR OSCILLATOR

a synopsis by Jorge Resines

What you are about to read is my resume of the book *La Science et le Bonheur, Longevite et Immortalite par les vibrations* -- *Science and Good Health, Longevity and Immortality Through Vibrations* -- by Georges Lakhovsky. More specifically, this synopsis encompasses Part III, chapters 1 and 2, being pages from 137-171 of said work, and whatever I translate from it will be forwarded by the words "Lakhovsky said:".

Mr. Lakhovsky begins by indicating the influence of heavenly bodies upon all facets of everyday life, from their influence upon the cells up to how magnetic compasses are affected by magnetic storms originating in the Sun (he refers the readership to his book *L'Universion*, published by Gauthier-Villars of Paris, France). He says that the French Astronomer Mr. Deslandres with his collaborators at the Observatory of Meudon have established a cycle of about 27 days for sunspots affecting both tides and earthquakes. This lapse is part of another larger cycle of 11½ years (or about) that most usually forms in turn part of another, larger, cycle of 33 to 35 years.

Mr. Lakhovsky also discovered, as indicated by the small circles at the lunar orbit of Figure 1, that lunar radiations provoke interferences with the waves broadcasted from radioelectric stations at said marked positions.

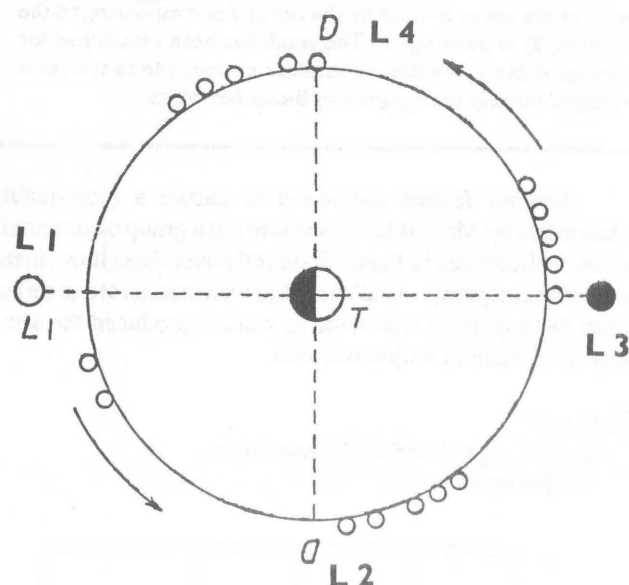


Figure 1

L1 = Full Moon
L3 = New (Dark) Moon

T = Earth
L2 = Waning Moon
L4 = Waxing Moon

Carrying his researches a step further, helped also by the people at the Observatory of Meudon, he correlated the highs-and-lows of three different factors (to wit: a. Sunspot activity, b. Perturbations of Terrestrial Magnetism, and c. Polar Aurora) with the type of wines collected at different French regions. For a single zone and type of wine, his findings are

shown in Figure 2 (next page). You will easily notice how the highs of the three factors are in coincidence with the best collections of wines, with a single exception: the 1880-1889 period when the grape-wines were massively attacked at France by the "Phylloxera" plague. Though Mr. Lakhovsky does not explain the reason for this adverse period (when the opposite was expected), he does voice his opinion that cellular and biological phenomena is periodically affected by the same type of radiations (and the generated-sicknesses they produce), proposing at the same time to destroy the scourges by overriding the "astrally-produced radiations" (his words) with this "Radio-Cellular Oscillator."

About the basic concept behind his devices, Lakhovsky said: "To re-establish the balance of these heavenly fields from nature, upon which variations we are able to act directly, unlike Meteorology which cannot make weather change, I will resort to a local oscillating-generator of waves creating an auxiliary artificial electromagnetic field."

"By the way, I must add this method is analogous to that employed in radiotelegraphy and known under the names of heterodyning and superheterodyning. These procedures employ the interferences generated between the received and generated waves by a local generator, at the necessary frequency and intensity."

Mr. Lakhovsky states that his inspiration came from Professor Arsene D'Arsonval, who in 1890 had put forth the opinion that different sicknesses could be eliminated by means of high-frequency currents. He continues on, explaining that by about 1924 he studied the possibility of generating waves under 2 meters in length, but that the electronics of said period considered "short" only those waves from 200 to 500 meters.

To overcome such a hindrance, Lakhovsky developed a vacuum tube with multiple-electrodes and received two patents for it -- French Patent No. 601,155 granted in October 18, 1924 and German Patent No. 427,596 granted in May 26th, 1925 -- afterwards another scientist of that time, Dr. Siegmund Loewe, improved on his ideas and demanded a French Patent on May 07, 1927 (this Patent is not indicated as either granted or not; further investigation is needed here).

Figure 3

+HT = Positive High Voltage
-HT = Negative High Voltage
G = Grid
P = Plate

C = Condenser
S = Loop of Coil
F = Filament

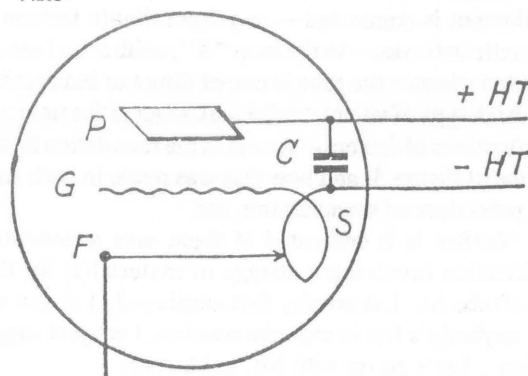
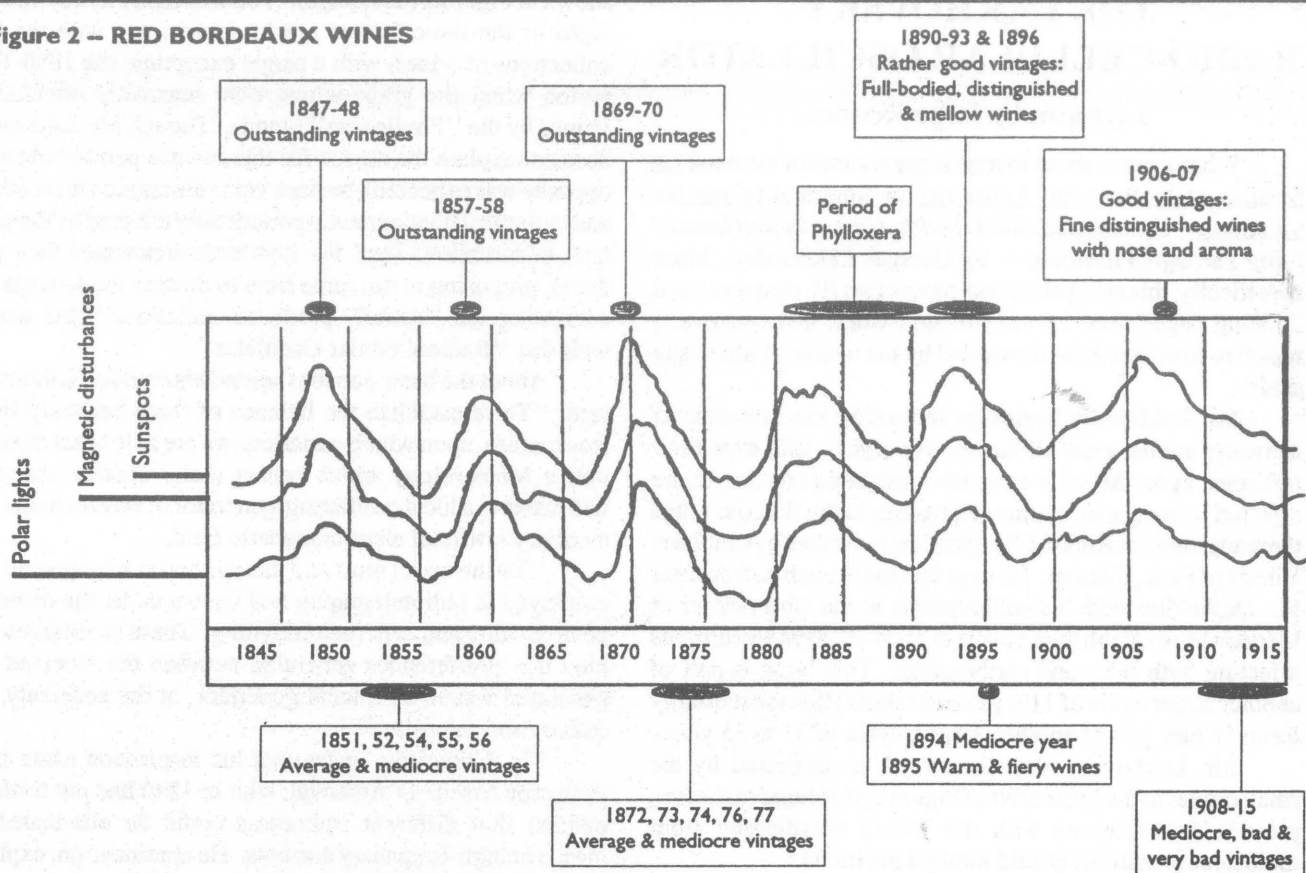


Figure 2 -- RED BORDEAUX WINES



Graph showing the coincidence of outstanding vintages with the intensity of the waves emitted by the sun and corresponding to the variation in the intensity: 1) of sun-spots, 2) of earth magnetic disturbances, 3) of polar lights. The graph has been established for red Bordeaux wines; the greatest intensities correspond to the outstanding vintages, the lesser intensities correspond to the years of mediocre wines. We can establish a similar graph for the other vintages, notably Bourgogne and Beaujolais wines.

To produce waves "under 1½ meters" (his words), Mr. Lakhovsky enclosed within a vacuum tube's glass vessel different elements, as is seen in Figure 3. About this new type of tube, Lakhovsky said: "The oscillating circuit does not involve but a loop with a diameter of several centimeters. The only connections going out of the tube are the supply-wires, leading the plate-voltage and the heating current. These tubes can generate oscillations and transmit them to external circuits (square-loop antennas) by induction."

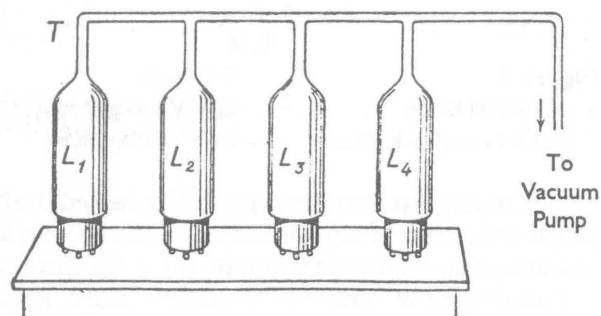
I will stop now the synopsis to introduce a personal comment: It is not clear on the illustration of Figure 3, WHY the filament is connected -- in a controllable fashion as the schematic indicates -- to the loop "S"; neither do I see clearly indicated whether the tube is one of direct or indirect heating and which type of vacuum tube -- existing at the time, with its specifications of that era -- served as the foundation to develop the tube of Figure 3, and how this was made in both constituents, procedure of manufacture, etc.

Neither is it indicated if there was a constitutional modification involving a change of material(s) for the new type of tube Mr. Lakhovsky first employed. I do not want to spoil anybody's fun in experimentation, I am just suggesting caution... Let's go on with Mr. Lakhovsky.

Another feature employed to ensure a high-quality when in use by Mr. Lakhovsky was to put a group of electronic tubes, as illustrated in Figure 4, directly over these lines, in the same vacuum pump. As all the tubes were connected in series, when the apparatus was made to work it produced the same degree of vacuum within them all.

Figure 4

L_1, L_2, L_3, L_4 = Identical Vacuum Tubes
T = joining tube

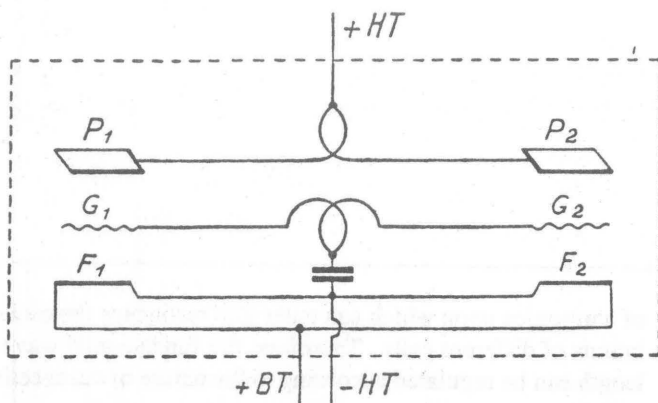


A further development of his idea, "extracted from his patent" he claims without indicating which one (French or German) this is, is the multiple triode illustrated in Figure 5. From its analysis we notice that Mr. Lakhovsky adhered to electronic theory, which says that electricity is a flow of electrons, and in a semiconducting device as the usual vacuum tube there is only a single direction of flow, from the "Cathode" (or negative pole) to the "Anode" (or positive pole). In the multiple triode of Figure 5, the filaments are connected in parallel.

Figure 5

+BT = Positive Filament Voltage
-HT = Negative High Voltage
 G_1 = Grid Tube No. 1
 P_2, G_2, F_2 = Same for Tube #2

+HT = Positive High Voltage
 P_1 = Plate Tube No. 1
 F_1 = Filament Tube No. 1
C = Condenser



A further improvement of the device is seen in Figure 6, of which Lakhovsky says: "This illustration, also taken from my patent, shows a double and symmetrical oscillator where the filaments are mounted in series. It is also provided for, eventually, to place within a condenser so located as the electrodes and the loops of the oscillating circuit, within the same evacuated glass-vessel".

Figure 6

G_1 = Grid Tube No. 1
 P_2, G_2, F_2 = Same for Tube #2
-HT = Negative High Voltage
-BT = Negative Filament Voltage

P_1 = Plate Tube No. 1
 F_1 = Filament Tube No. 1
C = Condenser
+HT = Positive High Voltage
+BT = Positive Filament Voltage

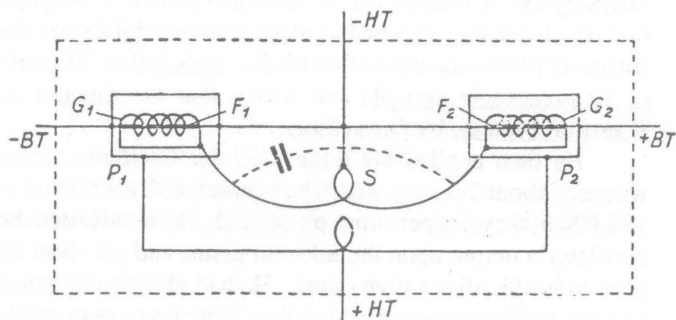
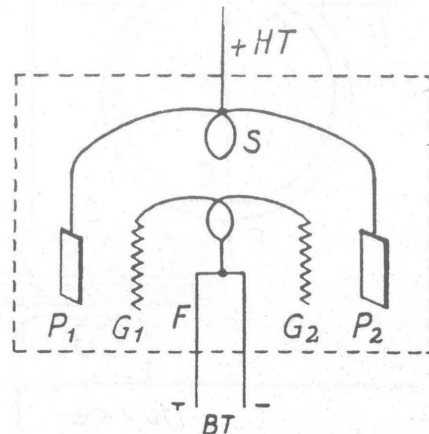


Figure 7 shows us a double-oscillator with a single filament, that is the two lamps of Figure 6 within a single vessel and with just one heat-source.

Figure 7

+HT = Positive High Voltage
+/- BT = Positive and Negative Filament Voltage
F = Filament
 G_1 = Grid No. 1
 G_2 = Grid No. 2

S = Loop of Coil
 P_1 = Plate No. 1
 P_2 = Plate No. 2

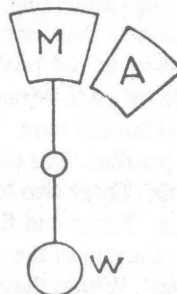


I remind the readership that all the models of vacuum tubes shown so far are for short waves under 2 meters. Lakhovsky indicated that to obtain long waves it sufficed to place the same elements outside a vacuum tube.

After saying that everything so far shown were just "extremely general things" Lakhovsky said: "One can, almost, say that Dr. Loewe just introduced resistances and capacities within his multiple-tubes, where performance is just reduced to amplifying low and high frequencies upon long waves. The performance of these tubes is very mediocre because of the following reasons: a) Heavy linking resistances, b) Strong plate-voltages (about 160 to 200 volts), c) impossibility of coupling circuits and thus producing a resonance."

Figure 8

M = Mobile blade of condenser
A = Fixed blade of condenser
W = Weight to move blade "M"
H = Turning point for the combination of "M" with "W"



Here, in the former comment, is an apparent contradiction: Lakhovsky criticized Dr. Loewe for including resistances and capacities within his multiple-tubes, while at the

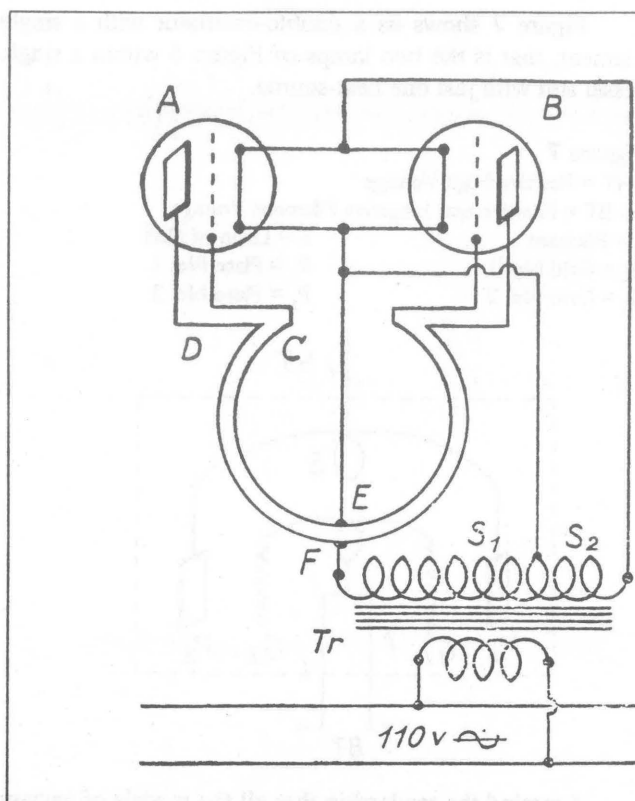


Figure 9

- A = a Lakhovsky Triode
- B = another Lakhovsky Triode
- C = Loop associated to Grids
- D = Loop associated to Plates
- E = Connection to Filament
- F = Connection to High Voltage of Transformer secondary tap S_1
- S_1 = High Voltage tap of AC Transformer secondary
- S_2 = Filament Voltage tap of AC Transformer secondary
- Tr = AC step-up Transformer with a tapped secondary winding

same time he did the same! But Lakhovsky's capacitors are different to the common types.

What he did was to "separate" a variable condenser's blades and to "counterweight" the moving blades, as indicated in Figure 8, so that the blades would move within the fixed armature of the condenser as the whole tube was rotated and weight "W" responded to gravity! He does not indicate, thus making it an object of personal experimentation on the part of the readership, if there was just one or more of these special variable condensers.

Now, in order to produce a wide range of frequencies with only two of his special triodes, Lakhovsky built the "Radio-Cellular Oscillator" that is shown in schematic form in Figure 9, which he used at the Clinic of Salpetriere in 1924 to treat and heal Geranium plants which he experimentally inoculated with the disease of cancer; it was mounted, he says, according to the "Montage Mesny," thus indicating that one man called Mesny originated the setup at that time (this is another source for research, try finding in old books from either the '20s or '30s anything made by a Mr. Mesny).

This is what, on the device, Lakhovsky says: "Plates, grids and filaments are connected in parallel. The circuits of grid and plate have each a single loop. These two loops are coupled variably between themselves. Plates and filaments are fed directly from the Alternating Current of the place by means of the appropriated transformer. Within these conditions, it is produced the emission of waves because it is branched the intake of current upon the electrified section.

"Using, accordingly, a condenser it is possible to produce the whole spectrum of waves between 2 and 10 meters of wavelength. The supply from AC produces a large number

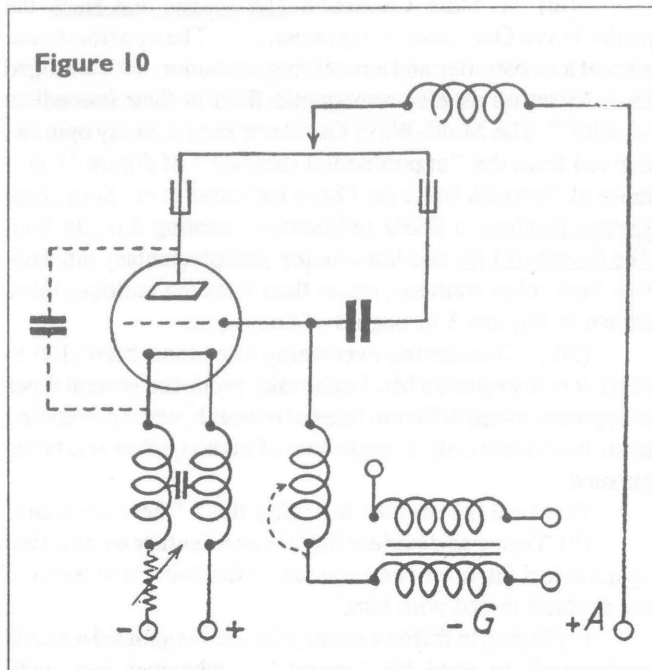
of harmonics upon which can enter into resonance the oscillations of different cells. Therefore, the fundamental wavelength can be regulated according to the nature of those cells to treat.

"The biological role of the Radio-Cellular Oscillator is to re-establish the oscillatory equilibrium in the living cell, under threat by any alteration, particularly by a close microbe. When recovering its normal strength thanks to the auxiliary irradiation from the Radio-Cellular Oscillator, the cell can all-by-itself destroy the microbe by counter-acting its deleterious radiation."

Mr. Lakhovsky goes on indicating that he established the aforementioned concept as the foundation of his device by first inoculating several plants of *Pelargonium zonatum* with the *Bacterium tumefaciens* in order to generate tumors similar to those of animals in plants (his source was: An Introduction to Bacterial Diseases of Plants by Erwin F. Smith, London and Philadelphia, 1920). He was helped with inoculating the plants by Mr. A. Gosset, Mr. A. Gutmann and Mr. J. Magrou, the latter being the one who had more articles published on the subject of plant-inoculation (see the Revue de Pathol. Vegetale et d'entomologie agricole and within that the Annales de L'Institut Pasteur, by this author).

He then applied his Radio-Cellular Oscillator, using waves of about 2 meters, which he equated with a vibration of 150,000,000 cycles per common-second. He broadcasted the oscillator's output upon the infected plants and got them all back to health after a given time. He had already explained how his oscillator worked to his fellow Frenchmen in an article (Radio-Revue, November 1923) and a conference (given at the Ecole Supérieur des Postes, Telegraphes and Telephones

Figure 10



on June 2nd, 1924).

After detailing how the experiment in plant-healing progressed and how the plants were healed, he goes on to explain that – in his conception – cancer is provoked by an “aging” of the cells that makes them both reproduce at a slower rate and to evacuate a higher amount of wastes. This, in combination with radiations coming from space at different times, produces an oscillatory disequilibrium in the cells resulting in cancer of different types. Mr. Lakhovsky rejects, on the ground of histological examinations he performed, both the “microbial” theory of cancer and its hereditary transmission.

If you have followed all of the writing up to this point, carefully noting the concepts involved in Lakhovsky’s procedures, you will remember that:

(1) His Radio-Cellular Oscillator created an auxiliary electromagnetic field capable of restoring balance to the diseased cell(s) and body.

(2) This was done by means of very short waves (during the period he experimented) of about 2 meters and 150,000,000 cycles per second.

(3) To achieve the necessary shortness of wave he introduced different elements within an evacuated glass-vessel, thus creating a different type of vacuum tube.

(4) He purposely indicated that external elements created long

waves that did NOT comply with what he needed for therapy.

(5) He included, within his special tubes, a variable condenser that could be tuned to the desired capacity by moving the tube in space so that the internal variable capacity could generate the coupling needed in therapy.

If all of this has been, so far, an essential group of conditions necessary to produce the short waves of about 2 meters, then why – as seen in Figure 9 – does he place two electrified loops OUTSIDE the vacuum tubes of his special design????

In compliance with this “loops outside” line, he goes on quoting the works by one of many foreign scientists who, he claims, have followed his line of research:

Lakhovsky says: “It is convenient to quote the works made by Professor Esau at Jena’s Technisch-Physicalisches Institut (Germany). If they are directed by ways somewhat different to mine, his works show the similitude of using an oscillator of very short waves similar to my Radio-Cellular Oscillator. Professor Esau’s emitters and receivers do not differ essentially from the apparatus I champion. I have already indicated that the arrangements of constituents are indifferent, because they produce the very short waves needed.

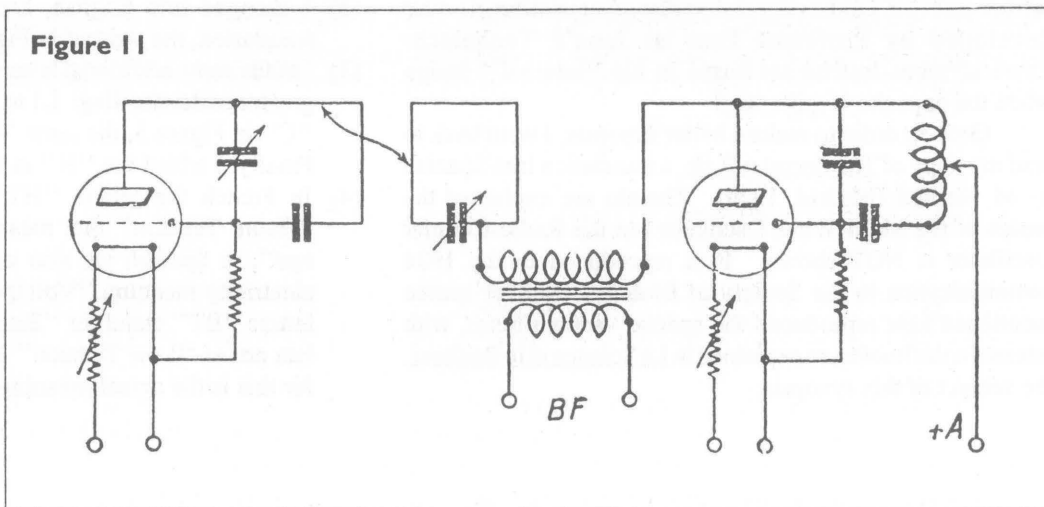
“The setups by Professor Esau – described in the Institute’s technical magazines by Dr. Ernest Busse (see *Die Erzeugung Ultrakurzer Wellen – Research on Ultrashort Waves* – in *Radio Welt*, No. 49, page 77, Vienna, 1928), secretary to the Institute of Jena, are characteristic because they employ a single triode working with DC.

“The emitter’s filament – as seen in Figure 10 – is fed by a filter preventing the return of high-frequency currents. Windings are made with simple fractions of turns, as in the Radio-Cellular Oscillator, which does not involve but a half-turn per oscillating circuit.

“An experimental receiver (see Figure 11) is supplied with a circuit possessing a single square-loop, upon which can be made variable taps. Another apparatus is possessed of a single circular-loop upon which a radial cursor allows to take just the necessary fraction of circuit.

“Works by Professor Esau in the realm of Biology are very recent, because at the August 1928 Radioelectric Con-

Figure 11



gress of Bremen (see *Les ondes ultra-courtes et leur champ d'application — Ultrashort-waves and Their Field of Application* — by Oscar Gadamer in *Der Deutsche Rundfunk — German Radio* — of August 31st, 1928, volume VI, page 240, Berlin) this author states that after about a year he investigated the physiological effects of ultrashort-waves that is, according to his definition, waves of very high frequencies between 1½ and 3 meters in length, of which I have indicated how I employ them in a 1924 communication to the Society of Biology (Note: It is on the inoculation and healing of the *Pelargonium zonatum*, as explained on page four of this writing). Prof. Esau then indicated that, since July 1928, he built a receiver of very short waves.

“About this subject, Professor Esau remarked that the main difficulties come from electronic tubes, for he was forced to use foreign tubes, particularly French ones, that are better fitted to the technology of very short waves. I must remind (the readership) that four years before him I studied and had built these special lamps for short waves, to be used in my Radio-Cellular Oscillator.

“I will also point out that an emitter of very short waves has recently been employed by Dr. Franz Seidel of Vienna for destroying bacteria, particularly to sterilize milk (see *Les ondes ultra-courtes contre les bacteries — Ultra-short Waves Against Bacteria* — in *Radio Welt — Radio World*, January 27th, 1929, No. 4, page 108, Vienna).”

We have two definitely contradictory positions in the same chapter dealing with the same type of device:

(1st) In the paragraph translated under Figure 3 of this paper, Lakhovksy emphasized that the elements to produce ultrashort waves (under 2 meters) must be inside the tube. Figures 3 to 8 are dedicated to showing specific constituents for this special type of tube. Though he only speaks on Triodes, there is no reason to suppose he did not experiment with Tetrode and Pentode tubes (plus others of his own design not usually covered in publicly available technical literature).

(2nd) The formerly-indicated conditions change radically when he speaks of his experimental device employed to eliminate tumors affecting inoculated plants, this being the device of Figure 9 of this paper. Notice how the emitting elements in this apparatus are outside the vacuum tube; furthermore Mr. Lakhovsky claims that other, similar, devices developed by Professor Esau at Jena's Technisch-Physikalisches Institut are based in his “internal” design when the opposite is quite true!

(3rd) In order to make a better synopsis, I went back to read my copy of *The Secret of Life*, a translation into Spanish by M. Aquilar (Madrid, 1929). Therein are explained the basics of the Multi-Wave Oscillator but the Radio-Cellular Oscillator is NOT shown. It is reproduced in the 1924 communication to the Society of Biology. Neither source mentioned here reproduced the special vacuum tubes, with internal constituents, as explained in *La Science et le Bonheur*, the subject of this synopsis.

(4th) In Mark Clement's *The Waves that Heal*, the Multi-Wave Oscillator is explained as: “The apparatus consists of a transmitter and a receiving resonator, both arranged so as to set up an electromagnetic field in their immediate vicinity.” The Multi-Wave Oscillator seems, in my opinion, derived from the “experimental receiver” of Figure 11 plus those of Heinrich Hertz (as I have indicated in my *Some Free Energy Devices*, a BSRF publication, quoting directly from *The Secret of Life* and introducing complementary information from other sources), rather than from the multiple-tubes shown in Figures 3 through 8 of this paper.

(5th) Considering everything explained from (1st) to (4th), it is my opinion Mr. Lakhovsky produced several types of apparatus, along different lines of research, while pretending in his books that only a single-line of investigation was being pursued.

What are the reasons for doing this? There are many:

(*) Trying to disorient his fellow scientists by covering up his actual intentions and actions, so that the actual secret of the apparatus rested with him.

(*) Trying to foil any attempt by the “organised medical profession” to steal his “secret” — whatever this could actually be.

(*) Having discovered something that he wanted to keep for himself in the course of his researches. This is, in my opinion, the most likely possibility, for Mr. Lakhovsky's researches were well-received in Europe, South America and Asia before WWII began. Even more, he was outspokenly backed by men of science and Academies of great reputation and his enemies were very few (outside of the USA, of course....).

I do not mean to slander him and his researches, I just want to indicate the necessity for greater and deeper research into what he did from all possible sources of information.

VERY IMPORTANT NOTE

In order to facilitate the understanding of the illustrations, I have taken a few liberties to aid the non-French speaking associates:

- (1) All the “lateral letterings” from Figure 3 to Figure 9 are of my doing, they did not exist in the original text.
- (2) I changed into English, keeping the true meaning in translation, the writing in Figure 2.
- (3) I made some additional lettering in some illustrations for greater understanding: L1 to L4 in Figure 1; I added the “C” in Figure 5, the same “C” was added in Figure 6; Finally, I added the “H” in Figure 8 for greater clarity.
- (4) In French the letters “HT” are the abbreviation of “Haute Tension” that means in English “High Voltage”; in Spanish we also use the word “Tension” in electricity meaning “Voltage,” as the French do. The letters “BT” stand for “Basse Tension” which I translate not as “Low Tension” but as “Filament Voltage” for this is the actual meaning.

ELECTROSTATIC M.W.O.

INTRODUCTION TO A NEW PHASE OF RESEARCH

by Peter A. Lindemann

Lakhovsky's multiple wave oscillator has always intrigued me. I tried to build my first one in 1976 based on Bob Beck's schematics. These early experiments failed miserably, but I remained interested. In 1987, I had the opportunity to see one of Bob Beck's MWOs at a meeting of the Los Angeles Psychotronics Association. I am a healer and a sensitive by nature, and I was looking forward to finally seeing the mythical machine in action. Bob had said that is was a very high power model and he was right about that.

The unit was of the design that has been popular since the 60s; a high voltage spark-gap transmitter driving an antenna of concentric rings. Bob turned it on and ran it for about three minutes. It made a loud zapping noise as hundred of sparks jumped from ring to ring on the antenna.

I was standing in the back of the room, about 30 feet from Bob's MWO. As soon as he turned it on I felt a blast of irritation hit my aura. I could handle the etheric frying of my energy field for only about thirty seconds before I had to leave the room. When I came back in, everyone's energy had been fried. The meeting quickly digressed into a break, with everyone talking to their neighbor. It was quite a sensation!

In thirty seconds I had become convinced of two things. First, this MWO was extremely damaging to the subtle energy field and therefore must be incapable of promoting systemic healing. And second, this MWO must be unrelated to what Georges Lakhovsky was reporting in his book *Secret of Life*.

Since I drew those conclusions back in 1987, I have been confronted with numerous testimonials of people gaining benefit from this style of MWO. While I do not doubt the accuracy of these stories, I must admit, I do not understand by what process the benefit is derived.

Here is where the MWO languished in my mind until Lou Schad's articles appeared in the March/April and May/June 1991 issues of this journal. Intuitively I felt Lou was on to something very important. On a visit to Borderland Headquarters, I had a chance to evaluate a unit Lou had given to Tom. The energy coming from the antenna was gentle but very penetrating. I was excited. I went

home with the intention of building one of Lou's units to experiment with.

After considering Lou's design carefully, I decided to make a few changes and by late May 1991 I had my first unit. As it turned out, my unit did not look at all like Lou's, but it did embody the fundamental principles that he innovated. These included a spiral main antenna that was charged with static electricity and physically vibrated. Lou's antenna was complicated to build. I decided to use an antenna design that I had been developing uses for for three years, a spiral based on the phi ratio that I could have printed right onto a circuit board. That solved the problem of antenna fabrication. Another thing I changed was the method to induce the physical vibrations. Lou had used an aquarium pump. It worked well but was limited to only one rate of vibration. I decided that the rate of vibra-

SCORES BEFORE SESSION

Ideal Score: 8
Biological Score: 19-16-14-12-9
5 scores with high numbers
is considered very toxic.
Immune System Stress: 3
Endocrine System Stress: 5

SCORES AFTER SESSION

Ideal Score: 6
Biological Score: 12-10-8
Immune System Stress: 1
Endocrine System Stress: 0

tion might be important to look at so my unit was made with a variable rate of vibration from 2½ vibrations per second up to about 14 vibrations per second. The last change I made was the vertical antenna. Not knowing the height I needed for the optimum effect, I simply used a retractable replacement antenna from Radio Shack, the kind you usually see on portable radios. This gave me a way to vary the electrostatic charge on the spiral, by raising or lowering the antenna.

By early June 1991 I had made an arrangement with a local acupuncturist in town to run some clinical trials with the unit. This medical professional has asked to remain anonymous and so for the purposes of this article, I will refer to this person as "John". John is a gifted sensitive and an advanced bio-energetic diagnostician using equipment from Germany called the VegaTest. John also has had assistance in this evaluation by another gifted sensitive who can see auras in vivid color and detail. I will refer to this second person as "Pam". As of this writing in early November, their evaluation has been on-go-

ing for 4½ months or since mid-June. The results are preliminary. No cures are claimed. However, all indications point to systemic detoxification, energizing and rejuvenation, just what you would expect to see from a broadly stimulated natural healing process.

The VegaTest procedure is very sophisticated. It uses a bio-feedback mechanism to establish baselines for toxicity level, systemic stress and specific organ stress as well as the presence and location of specific pathogens and types of toxic substances. Toxicity level is measured on a scale of 0 to 21, where 21 is the most toxic. A "Biological Score" is developed from the toxicity values that come up and can have from 1 to 6 numbers ranging from 1 to 21, 6 numbers being the most toxic. An "Ideal Score" is determined on a scale from 1 to 15 where normal for adults on first testing range from 7 to 11. Stress on the immune system and endocrine system is measured on a scale from 0 to 5.

CASE A is a 21-year old female who has never been treated with other remedies. The patient was VegaTested, then received one 20 minute session with the MWO and then was retested. (See box insert) These scores sug-

gest that even one session can temporarily reduce stress levels significantly and promote detoxification.

CASE B is a 72-year old male with extreme intraocular pressure. The patient received only three sessions with the MWO. The pressure within the eyes lessened with each session. Pam reported that before the MWO sessions, the region of the eyes and head was completely dark and devoid of life force. After the first session, the darkness cleared about 40%. With the second session, the darkness cleared about 80% and with the third session, the energy around the eyes was completely vibrant.

Without going into a lot of specific case histories, or naming disease conditions treated, John and Pam are consistently seeing the following:

1. The MWO expands the energy field around the body 3 to 6 feet.
2. It functions to reduce accumulated stress on many levels.
3. It clears the energetic imprints of illnesses.
4. It fills in breaks and cracks in the aura.
5. It builds vitality at a very deep level and combats fatigue.
6. It promotes the drainage of stale and stagnant life energy down the arms and legs and out the hands and feet. Several times

Pam has seen dark yellow or dark green energy drain out of acupuncture points or organs, to be replaced by cleaner and clearer colors.

7. Everyone experienced improvement, regardless of their condition.

METHOD OF USE FOR THE MWO, (developed by John and Pam during this testing period) is as follows:

1. A person using the MWO should sit in a comfortable chair with their feet flat on the floor and their hands apart, laying on their thighs, palms up is best. The chair should be about 6 feet from the MWO. During the session they should periodically rotate their wrists and ankles to help promote the draining.
2. The MWO should be started at slow vibration rates (2-3) and slowly moved to higher vibration rates (5-9) and then at the end, moved to slower ones again. Sessions can be from 10 to 25 minutes.
3. After the MWO is turned off, the person should remain seated for 10-15 minutes to continue to drain while the energy field

slowly shrinks back from its highly expanded state.

4. Rooms where the MWO is used may need to be cleared after its use due to the stale energies that drain out. Sun light, fresh air, toning, sage or other means may need to be employed to keep the MWO session room clear.

THE BSRF MWO PROJECT continues to develop, as this and other articles in this issue clearly show. A special thanks to Lou Schad for his brilliant and original departure from the errors of the past and showing us the true Borderland spirit in action.

One final note. We at Borderland are constantly railing against people who invoke the name of some famous researcher, like Rife, Tesla or Lakhovsky, and then sell the public a piece of equipment unrelated to the original work. This is no better than bait-and-switch hucksterism and we deplore it. Therefore, let us state for the record from the outset, that this new Electrostatic MWO is not what Georges Lakhovsky was doing. Neither is it a direct attempt to duplicate his work. Lak-

hovsky claimed to have had his units in use around the world, but after years of research we have found no physical evidence of this. He never published detailed schematics of any complete devices. This new MWO is a modern attempt to address the same problems that Lakhovsky was grappling with. We call it a multiple wave oscillator because it is, clearly, a device that produces a wide spectrum of oscillatory emissions simultaneously. Lakhovsky pioneered this line of research. This unit is not a "Lakhovsky MWO" but, strictly speaking, no other unit sold in the last 30 years has been either.

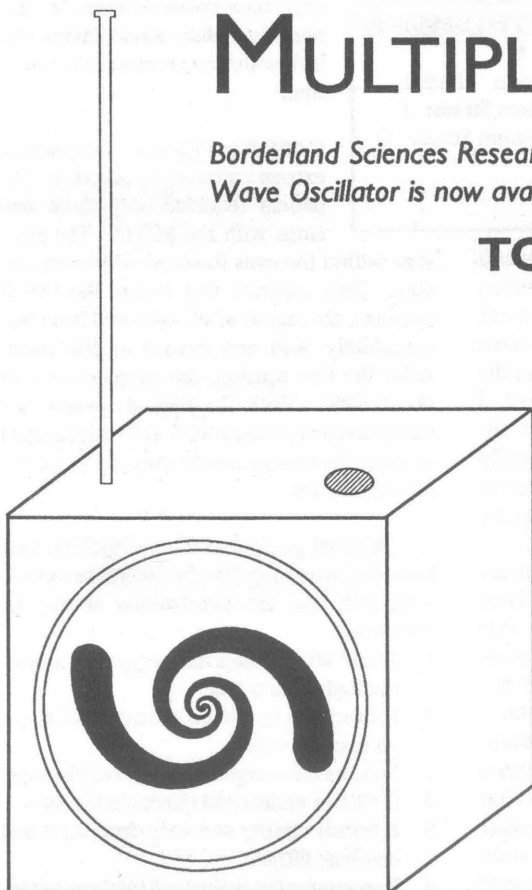
As this MWO is part of an ongoing research project, a limited number of these units will be produced and made available to the public.

The new BSRF Electrostatic MWO is for investigational purposes only. It is not a substitute for professional medical care and is not indicated as a specific cure for any disease condition. Any such use goes directly against the intent of the manufacturer. The performance characteristics of this device have not been established.

MULTIPLE WAVE OSCILLATOR

Borderland Sciences Research Foundation is proud to announce that their new Electrostatic Multiple Wave Oscillator is now available for investigational purposes.

TOTALLY NEW APPROACH



This unique Multiple Wave Oscillator uses a specially designed spiral coil that is both physically vibrated and simultaneously charged with a safe quantity of static potential, unlike designs using high voltage discharges between concentric rings. The result is a wide-spectrum wavefront of electromagnetic and etheric vibrations. It also provides a means to introduce a wide variety of other subtle influences into the broadcast much like a substance biocircuit. The Electrostatic MWO from Borderland Sciences is a versatile investigational tool.

The MWO has a wide range of vibratory rates and charge intensities. It is a one square foot cube with a Golden Mean Spiral MWO antenna on the front and a retractable antenna on the top for tuning. Powered with standard AC. Constructed using no toxic materials.

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Shipped UPS-- Street Address Required. 30 Day Money-Back Guarantee

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SPIRAL COIL M.W.O. UPDATE

Lou Schad

This is an update on the work I have done on the spiral coil MWO. I have built and tested several new coils and made changes in design of shapes and twist of the wire and different size of wires etc. I have experimented on plants and myself for the past several months.

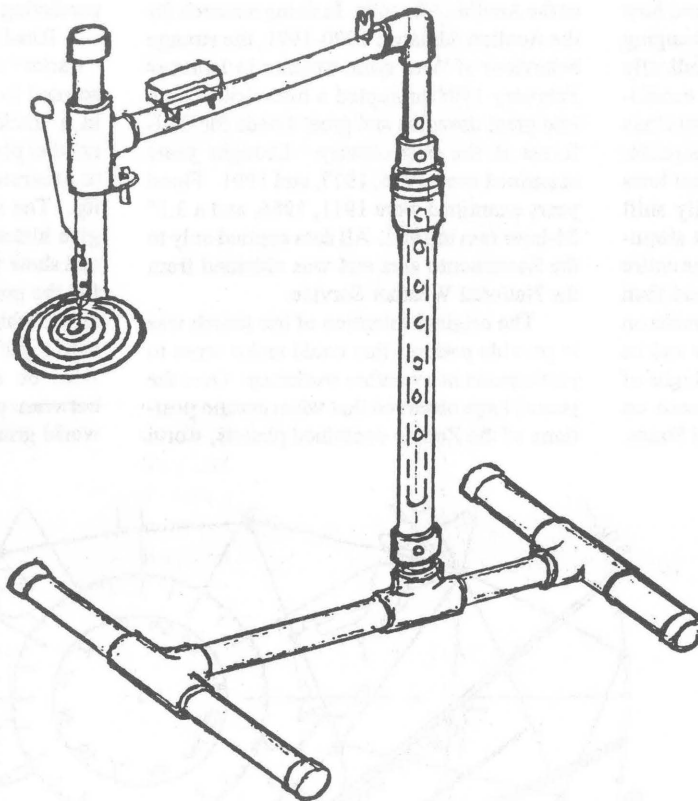
In my article in the Journal of Borderland Research of March-April 1991, page 15, figure 1, I stated, to twist the wire counter clockwise, as I was told by someone of authority that this was best. I now find after experimenting and testing that this is not so. I now twist the wire clockwise, causing a left hand spin of the wire when viewed -- or counter clockwise. If the wire is twisted in this manner it more than doubles the energy and the plants and I both seem to like it better. If the wire is twisted as stated it will produce energy not only in a spiral shape but also in single loop rings (overlapped) and also in just a straight length of twisted wire.

I made a coil like a target or a series of one loop rings of twisted wire of different diameters and wire sizes, from about 1 inch to 8 inch and overlapped them about $\frac{3}{4}$ inch and wired them to a X shaped piece of thin plywood, and it produces more energy than I need. I can stay under it only about 7 to 10 minutes. If I stay under it longer than this, I get over exposure or too much energy in my body, and it makes my feet and hands tingle.

I made a spiral coil from 1/8 inch copper tubing, twisting it like a solid wire, and it produces more energy than a like

spiral made from solid wire. I do not know if the energy travels on the inside of the tube and the outside also, but the energy produced is much more than is required for normal use.

I also have been experimenting with new and different ways to pump or project the energy. In my original design I used a vibrator to increase the output. I now



SPIRAL COIL MULTIPLE WAVE OSCILLATOR

find that with the new coils (twisted as stated) that they develop as much or more energy without the vibrator as the old coils did with the vibrator. It seems that the field or energy pattern given off by a straight (twisted) wire is different than those of a single loop (twisted wire) shape or spiral shape.

I am building a new coil that uses both and looks like a spider with 8 legs of different length. It has 2 single loops

(overlapped). One loop is 2-3/8 in diameter and the other is 4-1/8 in diameter. The small loop is centered in the large loop and in the same plane. I made a wood jig with nails for pins to hold them in place and soldered twisted straight lengths of wire pointing from the center outward. I will bend the tips of the straight twisted wires down 90° producing a shape like a spider. I'll let you know if it is different from the spiral coil shape in energy output.

It now becomes obvious that a spiral is not the only configuration that will generate or collect and broadcast energy of unknown origin. If other shapes or designs will also produce energy, is their output different? If so, what are the differences? Are the wave lengths different, are there different patterns to the waves or energy? How does it affect the living organism?

When a spiral or coil is placed in front of a reticular energy field it produces unusual results. Coils can be combined with many other forms of energy, magnetics, light, audio, vibration etc.

In my article I said you can design and build coils of all shapes and types, as it is only limited by your imagination. It is my personal belief that someday someone will design and develop a coil of a nature that will be highly beneficial to humanity, we need your input, ideas and help.

If a coil of twisted wire was built in a target configuration of a series of overlapping loops so as to be similar in design to a Lakhovsky coil, and was powered by a Beck MWO output, what would be the results? If a twisted wire coil will produce and project energy, connecting it to the field of a Beck type unit should be interesting. Are there any takers?

GEOMAGNETIC INFLUENCES ON THE ATMOSPHERE

by Dennis Kloczek

A central concept in meteorology is the vortex formation. The vortex lies as the primary image at the root of all weather phenomena. The question has often arisen, what is the significance of the vortex, what is its source? Both high and low pressure cells are vortices which move in opposite directions. The permanent areas of high and low pressure are vortices, as are the deep ocean currents which are thought to be the source of much of our weather activity. If it is true that the ocean currents directly effect our atmosphere, how does this connect with the rapidly changing conditions that the atmosphere periodically experiences? The ocean vortices are considerably more lethargic in their movements than the large lows and highs in the atmosphere. While it is true that the semi-permanent lows like the Aleutian low do not radically shift position very quickly, what is it that stimulates the Aleutian low to spread over the entire Eastern Pacific in a matter of days and then shrink back into the polar regions for weeks on end? The pulsing of the Aleutian low and its interplay with the Hawaii and Plains highs of the United States has a great influence on drought and flood cycles in the United States. This question intensified for me when I was preparing to give a workshop on drought parameters in California in 1991. It became obvious that a consistently elusive yet repetitious factor reappeared again and again in the data. The insight that a factor could be found which was a significant vortex forming force was initiated by an unusual book entitled *Anti-gravity and the World Grid* edited by David Hatcher Childress. This book contains a depiction of the so-called Russian grid. The Russian grid is a crystalline web laid over the Earth and is said to reflect the geometry of the carbon atom. Russian research puts forward the idea that the points and lines of the world grid are the facets of the Earth crystal. Along these facets geomagnetic energies are transmitted and released. Elsewhere in the book is a map and a system of co-ordinates for contracting a planetary grid system based on indications from Christopher Bird (*Secrets of the Soil*). This map has been developed by William Becker and

Beth Hagens of the Governors State University, University Park, Illinois. It consists of 62 geovortex points in the northern and southern hemispheres. Each geovortex point is connected to another by a grid line. The map then depicts numerous triangles which divide the Earth into facets of the world crystal.

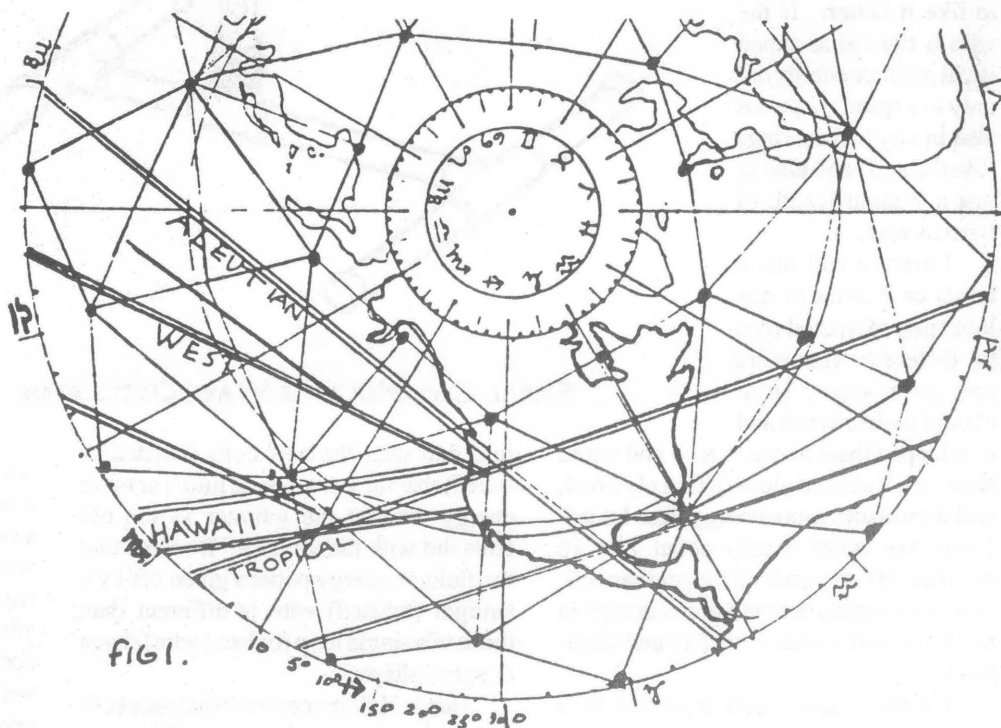
A year and a half ago I included this map in a north pole projection which I use for calculating weather changes astronomically. This work has been published on a small scale as the *Aeolian Almanac*. In doing research for the *Aeolian Almanac* 1990-1991, the strange behaviour of West coast weather in January/February 1991 prompted a historical search into great droughts and great floods for California in the past century. Drought years examined were 1976, 1977, and 1991. Flood years examined were 1911, 1986, and a 3.1" 24-hour rain in 1982. All data applied only to the Sacramento area and was obtained from the National Weather Service.

The original intention of the search was to provide patterns that could make sense to participants in a weather workshop. Over the years I have observed that when certain positions of the Zodiac contained planets, storm

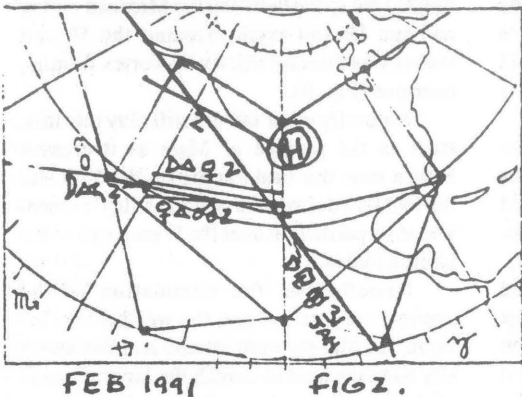
periods resulted. A statistical search had narrowed those positions down to four storm "tracks" (Fig. 1) which resulted in storms for Central California. These were the tropical track from 2° Scorpio to 5° Sagittarius, to West track from 5° Libra to 25° Libra, the Hawaii track from 9° Scorpio to 15° Scorpio and the Aleutian track from 15° Virgo to 5° Libra. Obviously this included a large portion of the sky and by projection a large section of the Pacific. By projection these tracks run from Japan to Baja California.

Despite the obviousness of this area being a Pacific coast weather maker, the differentiation and placement of the various tracks was an observable fact. Also, the Aleutian track being colder produces far less water than the tropical track, a fact to be reckoned with in predicting drought.

It had been observed that within the broad "tracks" across the Pacific certain key angles seemed to stimulate storm energies. Planets in a track which consisted of angles with another planet of 120°/90°/135° were observed to generate storms with a significant regularity. The intention for the workshop was to give historical profiles of the various tracks and show which angles were most significant for the past season storm tracks. Planetary angles which ran parallel to the Becker-Hagens world grid were noted as particularly reliable fixes on storm tracking. Angular aspects between planets which ran parallel to the world grid showed a statistically significant

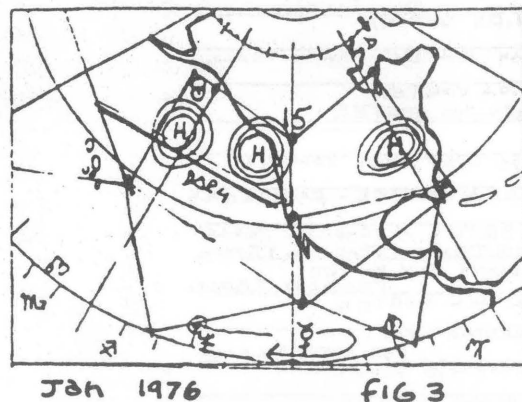


tendency to depict the track of the storm energies during the time of the aspect. For instance, a 135° angle between Mars and Saturn which ran parallel to a world grid line most likely would generate strong storm energies in the areas along the line. The aspect line in its actual placement on earth became a reliable indicator of storm motion. This has been observed in an overwhelming number of cases for the past season (1989-1990).



The idea for the workshop was to present the tracks and chart the angular aspects or, in the case of drought, the lack of angular aspects during the time of the weather event. A typical example would be the series of storms which came into central California in early February 1991 (fig. 2).

This chart clearly depicts the West track being energized during the early part of Feb-



ruary. The resulting rains came into the coast on a track that runs parallel to the grid line that connects Hawaii to Mexico. These lines depict the actual storm track into the coast. This storm broke a high pressure ridge on the coast which has been a major cause of West Coast drought.

Other aspects with Jupiter supported the high pressure in the Great Basin. Strong highs with no angular aspects to challenge them are often associated with drought.

The strongest drought in California occurred in the years 1976-77. This (fig. 3) was

the end of an extended drought and the year 1976 in January shows the typical drought signature of very few angular aspects for the month. This year 0.37" of rain fell in January. Strong highs dominate the Gulf of Alaska.

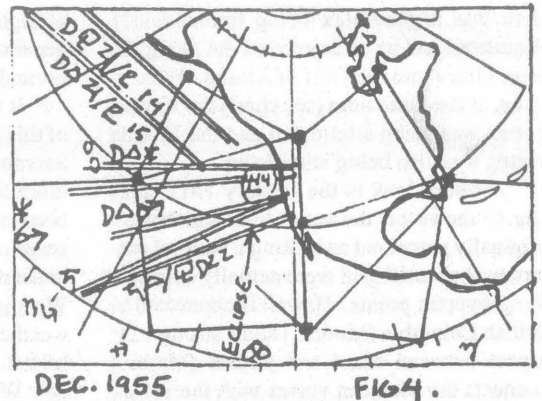
By contrast, in December 1955 12.2" of rain fell in Sacramento. We can see from the chart (fig. 4) that the Aleutian track, the Hawaii track and the tropical track are all active. A strong cluster of planets in Scorpio that year resulted in numerous angular aspects being generated. No high pressure aspects are found on the map.

A puzzling thing happened though, as charts were being prepared for this workshop. Many of the aspects of the 1955 rain (fig. 4) did not run parallel to the world grid lines, but crossed the junction points. It was my practice to use the grid lines as tracking parameters in order

to accurately predict landfall positions. The aspect lines of a very wet December seemed to be avoiding any parallelism to the world grid and yet tremendous rains were being generated. Unanswerable questions are continually arising in this work and so a notation was made about the curious December rains of 1955. Other very wet years however, soon began to reveal similar patterns of seeming non-patterns. On January 3, 1982 3.1" of rain fell in 24 hours into Sacramento (fig. 5). On that day there were no tracking lines into central California. On the day before, a 120° line from the Moon to Uranus came into California on the tropical track. But this is really not a very good reason for a 3-inch rain. It wasn't even parallel to a world grid line. The same non-pattern reared its head in defiance of the paradigm. It was grudgingly noted. The

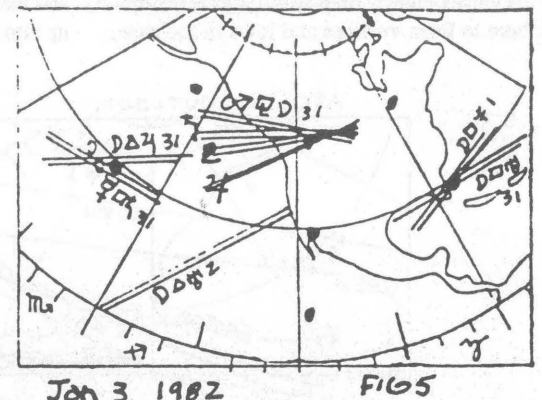
next significant rain in January 1911 was then studied (fig. 6). This time, 7 inches of rain fell between the 8th and the 14th. Surely many tracking lines during this time would be found. The result? A mere three tracking lines and none of them parallel to the world grid, but they did cross many intersections, here shown as black dots in order to simplify the maps.

What to do? Was a year's worth of tracking data suddenly obsolete? The three maps were laid side by side

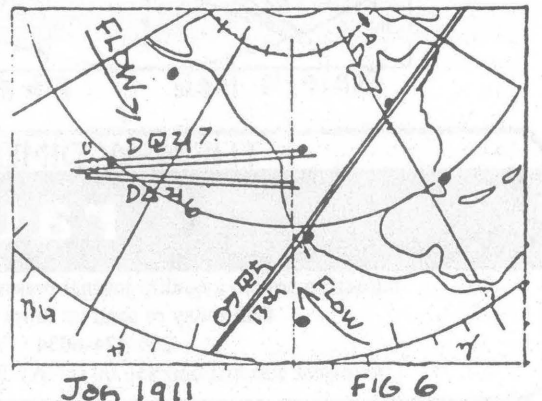


and examined in as many ways possible for similar patterns...heliocentricity, active sun patterns, parallel declinations, all produced very shaky data and almost no correlations.

But then, a curious pattern lit up in significance. This pattern can be seen on the January 3, 1982 chart (fig. 5). It is like an accordion pleat or Chinese fan up in British Columbia. It represents the Moon off to the



East in Pisces transiting Mars, Saturn, Pluto and Jupiter on the 31st of December 1981, a few days before the deluge of January 3rd hit Sacramento. The significance of this pattern lies in the fact that the nexus of the rotation of the aspect lines lies directly over the intersection of the world grid lines into British Columbia. At those intersection points, here represented by black dots, the Earth's energies are said to collect and to rise and fall in geovortices.



Here was a geovortex being tremendously stimulated and its effects rayed out along the aspect lines into the Gulf of Alaska. What is more, at the same time (see chart) the Hawaii vortex was being stimulated and the Florida vortex was also being stimulated.

A return look at the January 1911 chart (fig. 6) shows that the aspect lines which were originally perceived as lacking a parallel pattern to the world grid were actually connecting geovortex points. Hawaii is connected to British Columbia (Moon...) and a strong 135° aspect between Mars and Saturn (Mars...) connects the Mexican vortex with the vortex in Hudson Bay. During these aspects, 3.53 inches of rain fell on Sacramento. It now appeared that the big rains are not initiated by parallel aspect lines to the world grid but by aspect lines which cross or, more potently, connect geovortex centers. The image that arose was of great surges of vortex forming energy arising out of the ground into the atmosphere when a geovortex is stimulated. This vortex energy then stimulates the atmosphere to form vortices and lows in the case,

or highs when different singular aspects are generated and the energy moves towards the ground.

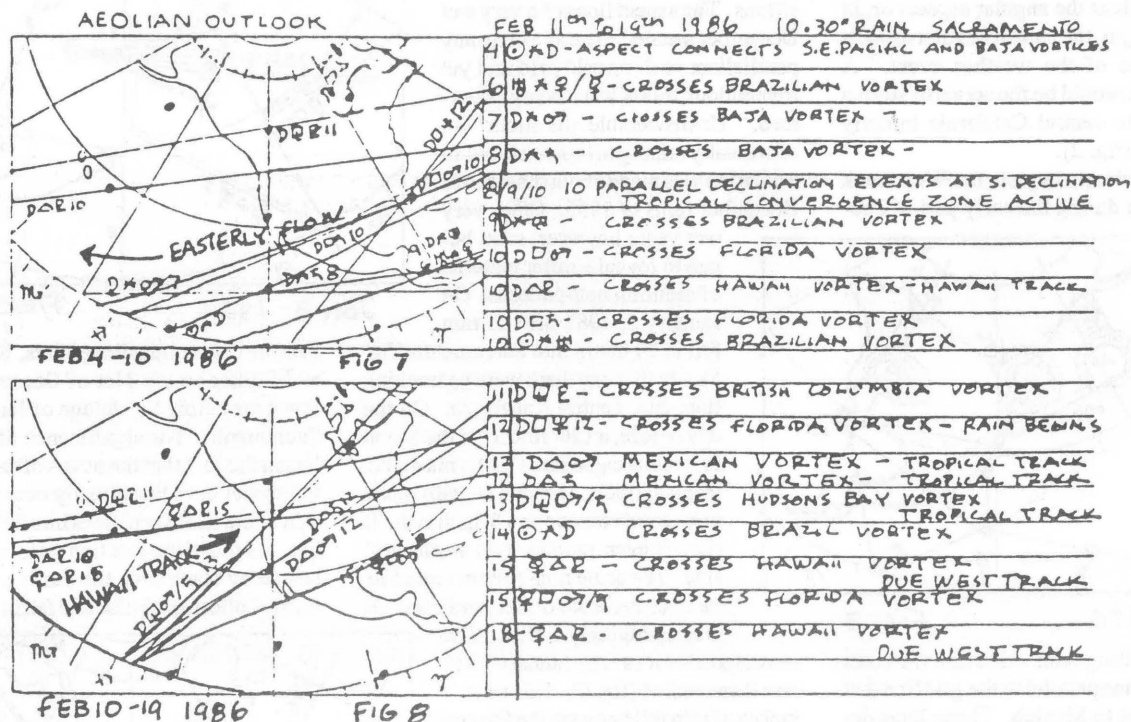
It was time then to perform the acid test of this insight. Since it happened in 1986, the Sacramento flood has been a meteorological thorn in my side. At least ten attempts have been made to construct charts which can make sense of the flood. Some have given a bit of understanding such as the chart published in Weather and Cosmos. However, all of the weather eggs did not fit into the forecaster's basket. Some aspects made sense, others did not. Would "the flood" yield some secrets if it was studied vortexially?

The accompanying diagram reveals a torrent of geovortex crossings and connections for "the flood of '86". Between the 4th and the 10th the tropics were extremely stimulated by many geovortex crossings (fig. 7). This easterly flow below 30°N latitude carried much warmth and moisture into the Southeast Pacific area just in time for the Hawaii track and the tropical track to pick it up and carry it up into the West coast (fig. 8). All totalled, the

first 18 days of February 1986 saw 17 geovortex crossings. It should be noted here that the planets forming the aspect are in direct alignment for only very short periods of time. Each line represents one such brief ephemeral aspect. It is nothing short of astounding then that such ephemeral events occur directly in line with so many vortex points, for such an extended period of time. Between the 11th and the 18th (the actual rainy period in Sacramento) the space between the Mexican vortex and the Hawaii track crossing the Hawaii vortex was literally filled with vortex forming energies (Fig. 8).

Naturally other factors still play into this, such as the perigee of Mars as it crossed Saturn over the East Pacific on the 17th and the fact that during this period Halley's comet was at its perihelion over the West Coast of the United States.

Nonetheless, the stimulation of the geovortices was intense, the weather was intense, the planets were intense and this intensity has managed to banish the laboriousness of chart casting and give this forecaster a new window on the drought.



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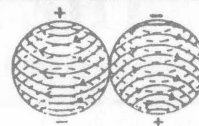
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CONSERVATION OF ENERGY

by Larry Spring

225 Redwood Ave., Ft. Bragg CA 95437

LARRY SPRING'S ELECTROMAGNETIC SPHERES



THERE IS A LAW OF PHYSICS that states that energy can neither be created nor destroyed. Radiated magnetic (electromagnetic) energy is a dynamic (kinetic) energy that is always moving from the more concentrated to the less concentrated by radiating out more energy than it receives. Spherical units of magnetic energy leaving an electron path in the sun, travel through space and move electrons in a series of atoms on Earth. This earthly atom electron movement will create a magnetic field which will reradiate in a global pattern. Some of the energy will travel out into space while some will travel to the next atom and repeat the electron movement and magnetic radiation pattern.

MY NEPHEW DALE SPRING makes some very intelligent simple observations from time to time that give me food for thought. Some time ago he said "The human body produces all the heat it needs. The trick is to conserve it." My vision of conserving heat calls for long thermal underwear and heavy overcoats. Heavy overcoats of the past have been replaced by light synthetic fluff or down filled jackets, coats, comforters or sleeping bags created by modern technology. You can tell if a material does not transfer heat rapidly simply by touching it. If it feels cold in comparison to other material at the same temperature you know it transfers heat more readily. There is only heat or absence of heat. There is no such an energy as cold.

ONE HEAT CONSERVING INVENTION OF THE PAST is a Dewar flask, better known as a thermos bottle. It employs two silver surfaced glass flasks, one inside the other, separated by a vacuum. When you accept Larry Spring's spherical shape and size of radiated magnetic energy (light and heat are two of a whole spectrum of sizes), you realize that heat or light cannot be readily absorbed by a polished, mirror finished, metal surface. It is like trying to receive a radio signal without an antenna. The spherical energy units just keep bouncing around like tiny balls traveling at 186,000 miles per second inside the thermos bottle when it is empty, or radiating from molecule to molecule when full. A mirrored surface is not a 100% perfect reflector for infrared sized spheres of energy so the heat does eventually get out. I doubt that space between the two bottles being a vacuum helps much as radiating heat can travel rapidly through a vacuum. A vacuum

would however prevent oxidation of the mirror finish.

REFLECTING SURFACES ARE USED TO TRAP HEAT. I have seen house insulation that looked like heavy paper with an aluminum coating on one side. The smoother this aluminum surface is the better it can reflect tiny spheres of energy. A mirror is good for visible light and all larger spheres of energy. It probably would look rough to x-ray and gamma ray spheres. Gamma rays no larger than the nucleus of an atom could pass right through the atoms of the silvered mirror coating.

Have you ever been to the San Francisco Exploratorium and found yourself in a three sided triangular room with mirrored walls? You can see an infinity of images of yourself in all directions extending as far as you can see and yet you know it is just the light bouncing back and forth between the mirrored walls.

If you were in a room with four walls, ceiling and floor of mirrors, and with no light, the heat from your body would just keep bouncing back and forth and, if your body kept producing heat, it might get too hot for you.

A SMALL LIGHT BULB probably would produce and accumulate more light and heat than you could stand. What I have just described is a microwave oven using white light for energy instead of microwave units of energy. The white light spheres of energy would be about 1/100,000 inch in diameter, the infrared about 1/15,000 inch and the microwave about 2 inches in diameter. The 2 inch microwave energy finds the metal walls of your radar range smooth by comparison and just keep bouncing around heating rough surfaced food. Water is a good absorber and conductor of heat so would get hot first. If your microwave oven was to be powered by a light bulb instead of a klystron or magnetron tube the walls would have to be at least a mirror finish.

Energy bouncing around in your microwave oven at the speed of light can cross the oven from wall to wall about 700 million times a second.

HEAT IS RETAINED in the Earth's atmosphere by a cloud layer as the tiny droplets of cloud moisture make a satisfactory sized reflecting surface for infrared spherical units. They arrive from the sun as light or infrared and reradiate upward to bounce back from the moisture droplets.

These droplets are too small to make a bounce surface for radio energy units 400 feet in diameter, TV energy units 6 feet or satellite TV energy 1½ inches in diameter.

THE IONOSPHERE can turn back large spheres of AM radio energy 400 to 800 feet in diameter. They bounce off the ionosphere as per the laws of reflection where the angle of incidence equals the angle of reflection.

Magnetic energy, either bouncing from a smooth surface, or reradiating after being absorbed, if not turned back to Earth by a reflecting surface like moisture droplets, an airplane or ionosphere, just keeps going out into space at 186,000 miles per second.

Conservation of energy is the most practical way of burning less fuel to release energy stored in or on the Earth by sunlight of the past. Don't let energy slip through your fingers.

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THE BODY BETA

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The following quotation is taken from A History of the Theories of Æther and Electricity, by Sir Edmund Whittaker, (published in 1954 by the Philosophical Society and in 1987 by the American Institute of Physics), Vol. II, pp 27, 28:

"In Newtonian mechanics, if S is an inertial system of reference, and if S' is another system such that the axes O' x' y' z' of S' have any uniform motion of pure translation with respect to the axes Oxyz of S, and if the system of time-measurement is the same in the two cases, then S' is also an inertial system of reference: the Newtonian laws of motion are valid with respect to S' just as with respect to S. No one inertial system of reference could be regarded as having privileged status, in the sense that it could properly be said to be fixed while the others were moving. Newtonian mechanics does not involve the notion of the absolute fixity of a point in space.

The laws of Newtonian dynamics thus presuppose the knowledge of a certain set of systems of reference, which is necessary if the laws are to have any meaning. In the nineteenth century many physicists inquired how this set of systems of reference should be described and defined. When Carl Neumann (1832-1925) was appointed professor of mathematics at Leipzig in 1869, he devoted his inaugural lecture¹ to the question, and introduced the name The Body Alpha for these systems of reference collectively..."

Although I do not fully agree with Whittaker's remarks, the existence of the Body Alpha, i.e. the set of all unaccelerated frames of reference, is generally regarded as beyond dispute. For example, any free body which is not acted upon by any forces such as gravity or other forces will, according to Newton's laws of motion, have its center of mass in uniform translatory motion; which allows a means of determining the Body Alpha. What is usually done as a relatively accurate approximation is to use a body having negligible acceleration as a reference. (such as the sun or the "fixed" stars)

Concerning Whittaker's remark that "No one inertial system of reference could be regarded as having privileged status, in the sense that it could be properly said to be fixed while the others are moving.": actually, Newton's laws do not imply one way or the

other whether some inertial frame of reference is more special than the others; because they do not involve such a notion except in the limited sense that one frame of reference has specialness bestowed upon it when it is chosen as the frame of reference or standard of rest for a particular discussion of a particular system; and except that in many cases, the choice of such a standard may not be entirely arbitrary because there may be for example physical objects in a known or simple state of motion relative to it. Furthermore, it is not improper in Newtonian mechanics to refer to such a frame as to be at rest; but this is usually done for simplicity of expression when such a frame is chosen and all velocities are expressed relative to it, so that its own velocity is expressed as zero: "at rest" and "at zero velocity" being equivalent expressions.

It is true that Newton's laws alone do not require that any particular frame of reference be used, but they have equivalent meaning no matter which of the frames of reference in the Body Alpha (the set of all inertial frames) is used. The fact that Newton's laws thus do not imply that there is one frame of reference in the Body Alpha which is at rest while the others are moving, because the existence of such a universal standard of rest is not necessary to complete the meaning of Newton's laws, does not imply that there is not such a frame. It is illogical to imply the negation of a statement based only on the lack of its implication. Put symbolically, if A, B, and C are statements, and if C is defined as the statement that A implies B; then it is not true that not C implies not B, and there is nothing so far to prevent B from being implied by other statements which do not contradict A.

I think the root of all this misunderstanding is the unstated premise that Newton's laws themselves describe or mean to describe all of existence. This is a false premise not attributable to Newton under which most of existence can be concluded not to exist. I think there is a tendency for some to employ such a premise without stating it because to state it would be to appear absurd; and because in the past and even to some extent in the present, there have been professors who have wished to give the impression that they have reality down pat: as if there must be nothing unknown or new to science.

The Body Alpha required by Newtonian

mechanics may be defined as the set of all frames of reference which have zero rotation and zero acceleration. A point having zero acceleration may be found from the motion of a particle which is not acted upon by any force. It takes three such particles to observe a frame of zero rotation. For example, if two unforced (free) particles remain the same distance apart with time, then the line through them is not rotating.

Since the Body Alpha exists, it is not unreasonable to hypothesize that there is a subset of the Body Alpha which has not only zero rotation and zero acceleration, but also zero translation. I have chosen to call this set of frames of reference the Body Beta, because of the name of the Body Alpha, and because the ratio $(1-v^2/c^2)^{1/2}$, which I will use as part of an argument for the existence of the Body Beta, is often referred to as Beta.

There is also a Body Gamma, which is a proper subset of the Body Alpha when both these sets are defined for the same system which is considered to be isolated (unforced as a whole). The Greek letter Gamma is appropriate for its name because the Newtonian constant of gravitation is often referred to as Gamma; and the existence of the Body Gamma is conventional in the sense that it is only necessary to the laws governing gravitational systems if those laws are in such a form as to be accurate only for a particular choice of the zero position of the coordinates in which those laws are expressed. The zero position for the Body Gamma is often the center of mass of an isolated system. The Body Gamma then is somewhat more superfluous than the Bodies alpha or Beta because it is easier to express the laws of gravitation in a form that does not require it; which is an advantage that Newton's laws have over Kepler's.

According to Whittaker's History (supra, Vol II, pp 31, 32), Sir. J. Larmor was the first to accurately express the Fitzgerald contraction, and in the same writing to recognize that a clock moving with speed v relative to the ether must run slower by the same ratio $(1-v^2/c^2)^{1/2} : 1$. (Larmor, Æther and Matter (1900)). The Fitzgerald contraction says that objects moving relative to the ether are shorter in the direction of motion as compared to such an object at rest by the same ratio Beta.

Around the turn of the century, recognition was given to the Principle of Relativity, and there was an effort to express the laws of electricity and mechanics in a manner accurate enough to satisfy this principle. Unfortunately, there are two principles of relativity in use. The true principle of relativity is as

(1) Afterwards published as a booklet of 32 pages, Die Principien der Galilei-Newton'schen Theorie (Leipzig 1870). He returned to the matter in 1904, in the Festschrift Boltzmann (Leipzig, 1904), p. 252.

follows: "Formulas expressing laws of nature which are observed to govern physical phenomena in a manner that does not depend on the velocity of the observer must be unaffected by any transformation of coordinates based on the velocity of the observer."

In 1904, Poincaré gave the name "The Principle of Relativity" to a principle which he stated as follows: "According to the Principle of Relativity, the laws of physical phenomena must be the same for a 'fixed' observer as for an observer who has a uniform motion of translation relative to him: so that we have not, and cannot possibly have, any means of discerning whether we are, or are not, carried along in such motion." (*A History of the Theories of Ether and Electricity*, Vol. II, p 30). Poincaré was mistaken however, to conclude that we have not, and cannot possibly have, any means of determining whether we are, or are not, carried along in such motion.

The transformations between systems of coordinates which were found in order to satisfy the Principle of Relativity, the Lorentz transformations, are properly interpreted as follows: Any system of coordinates based on a frame of reference in the Body Beta may be transformed by the appropriate Lorentz transformation to a system of coordinates in the Body Alpha; and any system of coordinates in the Body Alpha may be so obtained. The Lorentz transformations themselves include the four coordinates of time and space of the system being transformed from, and the corresponding coordinates in the system being transformed to; and depend on the velocity of the system of coordinates being transformed to expressed with respect to the system being transformed from. This velocity v is used in four ways. Its component in the direction of each of the spatial coordinates being transformed to, is used in the Beta ratio affecting that coordinate, and its magnitude is used in the Beta ratio affecting the time coordinate.

The requirements put on the Lorentz transformations by the Principle of Relativity in order to determine them were: to preserve the constancy of the speed of light as measured in any system of coordinates defined to include clocks at various locations which are appropriately synchronized by light signals; to make all of the equations expressing physical laws, such as the laws of electricity, optics, and dynamics, retain the same form independent of the velocity of the system of coordinates in which they are expressed; and to make the physical constants used in these laws also independent of the velocity of the observer or system or coordi-

nates. The Lorentz transformations satisfied these requirements, and thus made it possible for our formulas expressing physical laws to satisfy the Principle of Relativity.

An error made by many writers is to extend the Principle of Relativity in such a way as to require the assumption that v need not be defined as relative to any special frame of reference, such as one special enough to be in the Body Beta, but may be relative to any frame of reference in the Body Alpha. I guess this error is based on the belief that the Lorentz transformations themselves are among the laws of nature that must be made not to depend on the velocity of the system of coordinates in which they are expressed; and that this result may somehow be accomplished by asserting that v is relative to any frame of reference in the Body Alpha. If v were so defined, then the Lorentz transformation would not provide a coordinate system having the exact unique properties necessary to satisfy the Principle of Relativity, because it would be as arbitrary as v . If a Lorentz transformation is thus used in an incorrect way, so that both systems are in the Body Alpha but the system being transformed from is not in the Body Beta, then contradictory results will be obtained; and this is enough to prove that the velocity to be used in the Lorentz transformations in order for them to retain whatever truth they may have, must be relative to the Body Beta; where the Body Beta is the set of frames of reference having a velocity such that the unique value of v it provides for each Lorentz transformation provides the unique coordinate system needed to satisfy the Principle of Relativity; and thus must exist.

Mathematically, since it takes seven numbers to express the location, time, and orientation of any system of coordinates in the Body Beta, and since it takes the three components of the velocity v to obtain therefrom a frame of reference in the Body Alpha, by which method any frame of reference in the Body Alpha may be obtained; the Body Beta is a seven dimensional vector space which is a subspace of the ten dimensional vector space: the Body Alpha.

In order to avoid the error of transforming from one system or coordinates which is not in the Body Beta by a direct Lorentz transformation, the following procedure may be used. A Lorentz transformation which shortens units of distance measure in the direction of motion and which slows clocks is a forward Lorentz transformation. This is the type of Lorentz transformation usually given in books where x , y , z and t are the

coordinates of the frame of reference which is at rest relative to the ether (i.e., a member of the set called the Body Beta) and x' , y' , z' and t' are the coordinates for the moving frame of reference. The inverse of a forward Lorentz transformation is a reverse Lorentz transformation. A reverse Lorentz transformation goes from a moving frame of reference (in the Body Alpha) to one which is stationary (in the Body Beta). In order to transform correctly from systems of coordinates in the Body Alpha which are not in the Body Beta and which do not have the same velocity as the system being transformed to, it is correct to first transform to a system which is in the Body Beta by the use of a reverse Lorentz transformation; and then to use the appropriate forward Lorentz transformation to obtain the desired system of coordinates.

Unfortunately, despite the logical necessity of such an approach (as demonstrated by the famous "twins paradox" and other similar contradictions), it is not popular among physicists today to admit the need for a standard or rest (if such people are properly called physicists). It is easier to escape the fact that it is difficult to determine the velocity of the Body Beta relative to any moving lab, by assuming that it is impossible to do so. Also the view that there is no such thing as a preferred standard of rest to be found in nature tends to persist as a result of illogical implications from either the Principle of Relativity or from Newton's laws.

It is rather impractical to go to a region of empty space to observe the translatory motion of objects which are not subjected to forces in order to determine the acceleration of the Body Alpha; but that this would facilitate such a determination is recognized as a showing that there is such a thing as the Body Alpha. It is also rather impractical to send various observers speeding through space with different velocities to measure the very same phenomena so that their measurements could be compared; but that this would facilitate a determination of the velocity of the Body Beta should be recognized as a showing that the Body Beta exists. Furthermore, since the Lorentz transformations agree with the formulas given by Larmor for the Fitzgerald contraction and the time warp which must be used in order to conform to the existence of the ether to the results of experiments demonstrating the Principle of Relativity; and since the v used for the Beta ratios in these formulas is the velocity of the observer relative to the ether; the Body Beta must have the same velocity as the ether.

ELECTROMAGNETIC INDUCTION OF SPACE SUBSTRATUM

by
Paramahansa Tewari

In order to fully comprehend the working of Space Power Generators that operate at over-unity efficiencies and thereby defy the existing Law of Conservation of Charge and Law of Conservation of Energy, I had carried out a number of crucial tests. The enclosed article describes one such test that pin-points the substantiality of Space (Absolute Vacuum). In due course I shall be writing some more articles also that are based on the experiments carried out for the development of Space Power Generators.

INTRODUCTION

A cylindrical electromagnet, rotated on its axis, develops dc voltage between the axis and the periphery though there is no relative motion between the magnetic field in the core parallel to the axis and the iron conductor of the core. Refer to Fig. 1. Faraday had discovered¹ this effect by rotating together a permanent magnet and copper disc integral with it. Bruce DePalma² while carrying out the experiments on rotation of magnets independently discovered this phenomenon and named it "N-Effect". Development of N-generator by DePalma, Homopolar generator by Adam Trombly³ and Space Power Generator (SPG) by the writer operating at "over-unity" efficiencies and in violation of the "Law of Conservation of Energy" in its existing form is based on this new system of co-rotating assembly of magnet and disc conductor, in which the magnetic field and the conductor have zero relative motion. It gets evident that there are more basic aspects to Faraday's law of electromagnetic induction that what has been so far recognised.

In Fig. 2 a conductor C is placed transverse to a magnetic field B from a magnet M. Electromotive force (emf) is generated in C if it is moved as shown in the figure. Also if C is kept at rest and M is moved, emf is generated in C. In an other case, if current is changed in a nearby conductor C', the changing magnetic flux of C' will induce an emf in C. In the above cases, there is either relative motion between C and B, and B thus cuts the conductor or there is a change in the magnetic field B' of the nearby circuit conductor C' and the changing field B' interacts with C to produce emf. In SPG also the magnetic field is in

contact with the rotating iron core conductor and emf is produced without relative motion between the conductor and the magnetic field. The common feature in all the above cases is that for the generation of emf in a conductor, interaction with the conductor of either steady magnetic field of changing magnetic field is essential.

An experiment with rotating electromagnet described below has, however, shown that emf can be induced within a rotating conductor even when it has no direct interaction with steady of changing magnetic field. With this experiment, a conclusive proof is had that the absolute vacuum (space) is the fundamental substratum of reality that can undergo magnetic induction and transmit the emf induced in it to the conductor rotating relative to it.

EXPERIMENT

Refer to Fig. 1. The magnetic circuit of a rotating electromagnet completes its path through static iron limbs on either side and the base. In the four slots cut in the cylindrical iron core, provision is made for non-magnetic stainless steel (ss) rods that are welded near the centre of the core and connected with the non-magnetic ss ring surrounding the core. The magnetic field produced by the dc current in the coil, which is integral with the core and rotates with it, does not pass through either the four slots or the rods mounted within the slots. When the assembly is rotated, the magnetic field remains fully confined to the core, air gaps on either side of the core and the base. Measurements show however that the ss ring develops the same dc voltage as the cylindrical core's surface on its periphery (Although the ss ring and the rods are neither in contact with the periphery of the core nor have magnetic field in them. Even when four thin slots are cut in the ss ring making rods independent, the same voltage is induced in the ring. It is inferred that the zone in which voltage is induced in the rods is within the slots and since the magnetic field in the core surrounding the slots is a steady field due to dc current in the electromagnet's coil, electromagnetic induction as conventionally understood cannot induce emf in the rods. The space surrounding the rods in the slots has to be a real medium that has to somehow generate emf in itself so

as to transmit the same to the rods.

"STATIC" AND "DYNAMIC" SPACE SUBSTRATUM

The effect of generation of emf in the above experiment can be explained by introducing "static" and "dynamic" aspects of space substratum as discussed elsewhere in writer's works.⁴ The interatomic space within the iron core along with the "space vortices" that constitute the atoms of the iron core, the ss ring and the rods form one system of dynamic space that rotates relative to the static space. Within the iron core, however, the rotating space is super-imposed on the stationary space, and, therefore, the magnetic field there is common to both the rotating as well as the stationary spaces. As the space of the rotating iron due to rotation shifts along with its magnetic field, it leaves behind within the slots static space with magnetic field falling to zero there. This causes induction effect in the static space of the slots. The ss rods moving through the stationary space within the slots pick up the emf induced there and are thus raised to the same potential as the periphery of the core. If the space medium within the slots around the ss rods is considered an "emptiness", in the absence of any magnetic field there, no electro-magnetic induction is possible and hence the ss ring cannot develop emf with steady magnetic field in the core contrary to experimental evidence.

CONCLUSION

The following conclusion are drawn from the above experiment.

A rotating electromagnet carried with it during rotation the magnetic field in interatomic space of the core produced due to the coil integrally mounted on the core of the electromagnet. (As the source of the magnetic field [coil] rotates, the field also rotates with the source.)

The steady magnetic field in the iron core in its transverse motion of rotation produces emf in the neighbouring space (within the slots) due to the electromagnetic induction of space caused when the magnetic field in the core shifts relative to the stationary space substratum in the slots.

The radial flow of load current in the electromagnet's iron core and the magnetic field in the core transverse to this current, interact within the rotating space system of the core which is independent of the external stationary space system. The resultant force between the current and the magnetic field is thus contained within the rotating space system and does not produce torque opposite to that of the prime mover that rotates the electromagnet.

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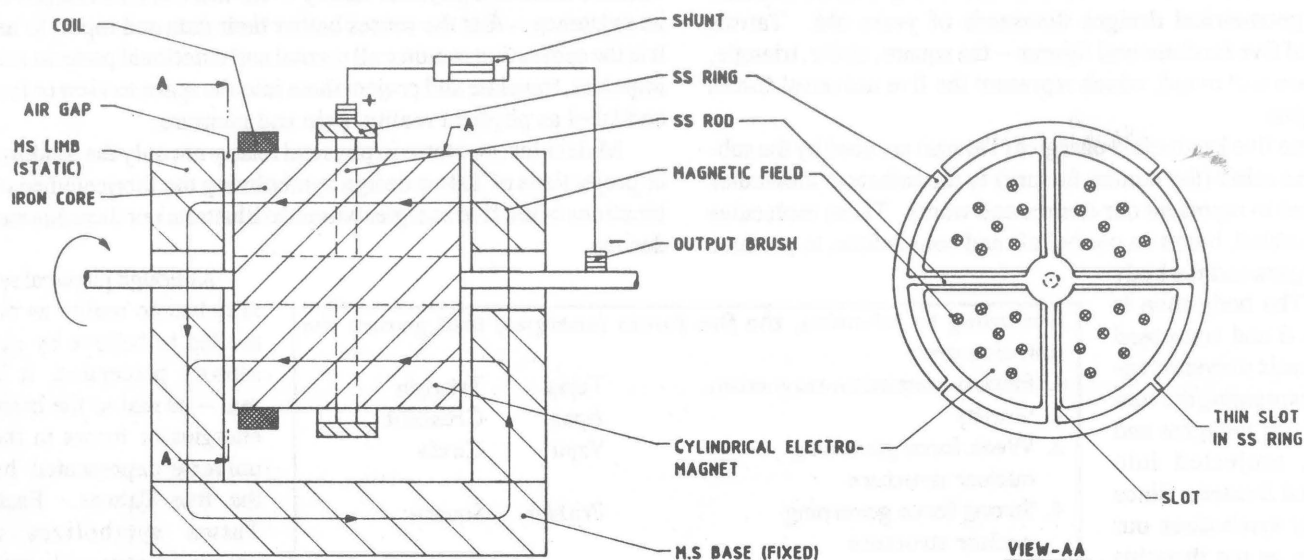


Fig. 1

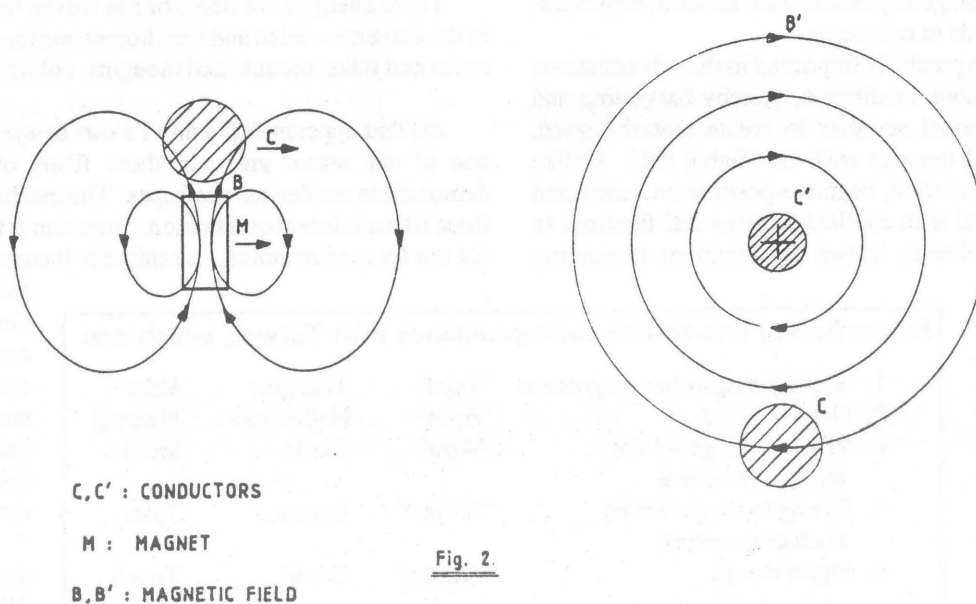


Fig. 2.

TATWAS

An Antidote to Human Discomforts

by Emahmn

Tatwas are meditational mandalas coming to us from Hindu mystic geometrical designs thousands of years old. Tatwas consist of five fundamental figures -- the square, circle, triangle, half-moon and ovoid, which represent the five universal forces or energies.

These five irreducible energies (Tatwas) are used by the sub-conscious mind (the human factory) to manufacture molecules structured to represent our desires and wants. These molecules are assembled, based on our beliefs and convictions, to produce cells, organs and the body itself. The body then is structured and composed of five basic universal energies, expressing the sum total of our thoughts and beliefs, projected into space and fixated. Since the body symbolizes our thoughts, as our thoughts change, the body will change accordingly through a series of activities directed by the sub-conscious mind. The thoughts can be changed by new desires; for such; consciousness definitely responds to our wants.

Our desires can be precisely imprinted in the sub-conscious mind by means of Tatwa meditation, thereby harvesting and culminating the universal energies to create material good, joyful living and total oneness with the Higher Self. Unlike positive thinking, affirmation, negative-positive processes and other systems that deal with cyclical patterns and fixations to resolve individual incidents, Tatwa combinations illustrating our intentions, eliminate worn out destructive patterns by introducing positive, productive concepts to our psyche. Frequent meditation on Tatwas results in the formulation of new concepts by the sub-conscious mind patterned after the meanings of the designs' symbology. Once these concepts are synthesized by the right brain, and finally put into practice by the left brain, they become the property of the living organism. Thus the molecular structure of every cell of the body is rearranged to accommodate these new ideas. From then on the old patterns will not be there,

as though they have been eradicated, never to occur again or to appear as modified rearrangement causing new discomforts.

Discomforts, pains and pleasure are representations of our thoughts and beliefs manifested on the body level, detected and understood by one or more of the five senses. Senses detect all pains and pleasures with or without their apparent physical replica. In fact, our sensory perception creates structural patterns which are represented by apparent physical reality. It is not because there is a physical reality -- for there is no evidence of its existence -- that the senses gather their data and report to us. It is the senses that monitor all mental and emotional patterns and impulses, translate and project them into the space to view or feel and label as physical reality, pain and pleasure.

Molecular structures in physical reality are only the shadows or projections of Tatwa design symbolizing the fabricated combinations of the five energies woven to illustrate our thoughts and desires.

Although physical reality has no reality as we are led to believe by our sensory perception, it is real -- as real as the basic energies or forces in the universe represented by the five Tatwas. Each Tatwa symbolizes a unique energy with specific properties, potentials and frequencies...

Tatwas have unique shape, color and meanings.

These energies are fibers of life woven to create all there is in the universe -- mice and rice, homes and toes, kings and gems, rocks and talks, mounts and thoughts, colors and sounds.

All that appears to the mind's ears or eyes or that is felt by one of our senses are only those fibers of light woven to demonstrate our desires and hopes. The mechanism that weaves these fibers is intent or intention. Intention is the power to carry out our focused attention. Attention is focused by our desires --

the fuel of creation. Our desires are aroused by our sensory perception. Our senses can be activated unconsciously, ignorantly or deliberately.

The simplest and most efficient way to deliberately activate our senses, arouse

our desires, produce new images, rearrange molecular structure of the cells and create a new body with new thoughts, beliefs and attitudes is through the use of Tatwas and their corresponding colors and sounds.

It is understood that all discoveries, inventions and creative

According to scientists, the five forces (energies) that govern the universe are:

1. Electro-magnetism-magnetism	Tejas	Triangle
2. Gravity	Apas	Crescent
3. Weak force governing nuclear structure	Vayu	Circle
4. Strong force governing nuclear structure	Prithivi	Square
5. Hypercharge	Askasha	Ovoid

Senses have a one-to-one correspondence with Tatwas, which are:

1. Electro-magnetism-magnetism	"Tejas"	Triangle	Sight
2. Gravity	"Apas"	Half-moon	Hearing
3. Weak force governing nuclear structure	"Vayu"	Circle	Smell
4. Strong force governing nuclear structure	"Prithivi"	Square	Taste
5. Hypercharge	"Akasha"	Ovoid	Touch

arts are realized through the use of the right brain. Intelligence of living, and emotional well-being are also directly proportional to the degree of the development of the right brain. The subconscious mind, which is the only faculty capable of communicating with the right brain, is highly amenable to suggestions and hints by self-conscious awareness through the use of Tatwas. Then the right brain can be consciously directed by self-consciousness to put into operation higher states of awareness and creativity through Tatwa meditation.

To fulfill the need and desire for originality and creativity, the development of the right brain is essential. The simplest techniques to accomplish this is through use of Tatwas.

The operation of the sub-conscious mind is a multi-progressive quinary system which is programmed and operated through self-consciousness. The operation of the self-conscious in a multi-progressive binary system which is operated through attention. The binary system has two symbols. (1) Focusing attention is "yes". (2) Not focusing attention is the "absence of yes" (notice that the "absence of yes" is not the same as "no"). To focus attention, one or more of the five senses must be involved in gathering information. Five senses represent the five categories or the quinary system of the subconscious mind's operation.

Tatwa combinations are the best focal points. Coloring them is the easiest way to concentrate our attention on things we truly would like to create in our lives. Because Tatwas symbolize the most basic form of the energies, they also correspond to the building blocks of all other systems.

In Cabala:

Tejas Triangle is the world of ideas of Atziluth
Apas Half-moon is the world of thoughts of Briah
Vayu Circle is the world of images of Yetzirah
Prithivi Square is the world of physical or Assiah
Akasha Ovoid is the mother of God, Binah or Isis

Tatwa correspondences with the holy name Yod-Heh-Vuv-Heh

Tejas	Triangle	Yod
Apas	Half-moon	Heh
Vayu	Circle	Vuv
Prithivi	Square	Heh
Akasha	Ovoid	Yod-Heh-Vuv-Heh

Tatwa correspondences with Tarot, Alchemy and Astrology:

Tejas	Triangle	Wands	Fire
Apas	Half-moon	Cups	Water
Vayu	Circle	Swords	Air
Prithivi	Square	Coins	Earth
Akasha	Ovoid	The whole Tarot Deck	Ether Space Zodiac Wheel

Correspondences with some of the above systems:

Tejas * Triangle * Sight * Ideas * Atziluth * Yod * Wands
 * Fire * Red
Apas * Half-moon * Hearing * Thoughts * Briah * Heh * Cups
 * Water * Blue
Vayu * Circle * Smell * Images * Yetzirah * Vuv * Swords
 * Air * Aqua
Prithivi * Square * Taste * Physical * Assiah * Heh * Coins
 * Earth * Yellow
Akasha * Ovoid * Touch * Mother * Binah * Yod-Heh-Vuv-Heh * Ether * Space * Indigo

Tatwas also represent forms, shapes and ranges of emotions, actions, potentials and behaviors.

TEJAS – TRIANGLE

- A. As an Arrow it represents: Force, Energy, Action, Dynamics, Direction, Motivation, and Authority
- B. As a Delta it represents: Fertility, Creativity and Prosperity
- C. As a Phallic Symbol it represents: Sex Energy, Passion, Penetration, Aggression and Achievement
- D. As a Heart it represents: Love, Joy, Affinity and Compassion
- E. As Fire it represents: Energy, Expansion, Passion and Expression

Meditation on this Tatwa can produce: Initiative, productivity, vitality, benevolence and self-recognition.

APAS – HALF-MOON

- A. As a Cup it represents: Accommodation, Perception, Containment, Formation and Limitation
- B. As the Feminine Aspect it represents: Receptivity, Sensitivity, Intuition and Nurturing.
- C. As the Half-moon it represents: Reflection, Productivity, Persistence, Flexibility and Calmness

Meditation on this Tatwa can produce: Receptivity, sensitivity, intuition, self-reflection and serenity.

VAYU – CIRCLE

- A. As a Sphere or Circle it represents: Smoothness, Harmony, Balance and Refinement
- B. As Air it represents: Intelligence, Discrimination, Expansion and Emotional Control
- C. As a Wheel it represents: Motion, Changeability and Adaptability

Meditation on this Tatwa can produce: Communication, discernment, discrimination, cleverness and versatility.

PRITHIVI - SQUARE

- A. As Earth it represent: Cohesiveness, Stick-to-itiveness, Reliability, Determination, Fertility, Wealth, Beauty, Art and Generosity
- B. As a Cube it represents: Solidity, Strength, Order and Foundation

Meditation on this Tatwa can produce: Stability, creativity, determination, inner-strength, magnanimity and diversity.

AKASHA – OVOID

- A. As an Egg or Cosmic Egg it represents: Cosmic Consciousness, Space, Universe, Infinite and Limitation
- B. As a Womb it represents: Inception of New Life, Expansion, Individualization, Understanding and Discrimination
- C. As an Oval it represents: Femininity, Feminine Principle, Creativity, Openness and Rapture.

Meditation on this tatwa can produce: Comprehension, concentration, universal awareness and actualization.

The energy called Apas (Half-moon) generates nurturing as a concept which is expanded by the energy called Vayu (Circle) and produces the concept of abundance. Once this concept is implemented by the automatic awareness at the body level, it will appear as though the concept of lack has been totally abolished or transmuted and replaced by abundance. The concept of lack -- which ordinarily would generate as lack of sex or sexual frustrations; loneliness; lack of money (possession, security) or poverty; lack of job (position); lack of joy, or sorrow; lack of love, or hate, bitterness, dislike; and lack of peace, or conflict, turmoil and agitation -- would no longer be in operation at that level. Instead, the same center would originate intimacy, sexual satisfaction, prosperity, and abundance of wealth, joy, love, peace and tranquility.

Meditation of Jupiter Card #10, or Vayu-Apas, will signal the sub-conscious mind to put in operation activities which will trigger electrical impulses in the chakra (the energy center called Jupiter). These electrical impulses are transferred to the nervous system at the solar plexus and sent to the right brain for analysis and implementation of the new concept represented by the

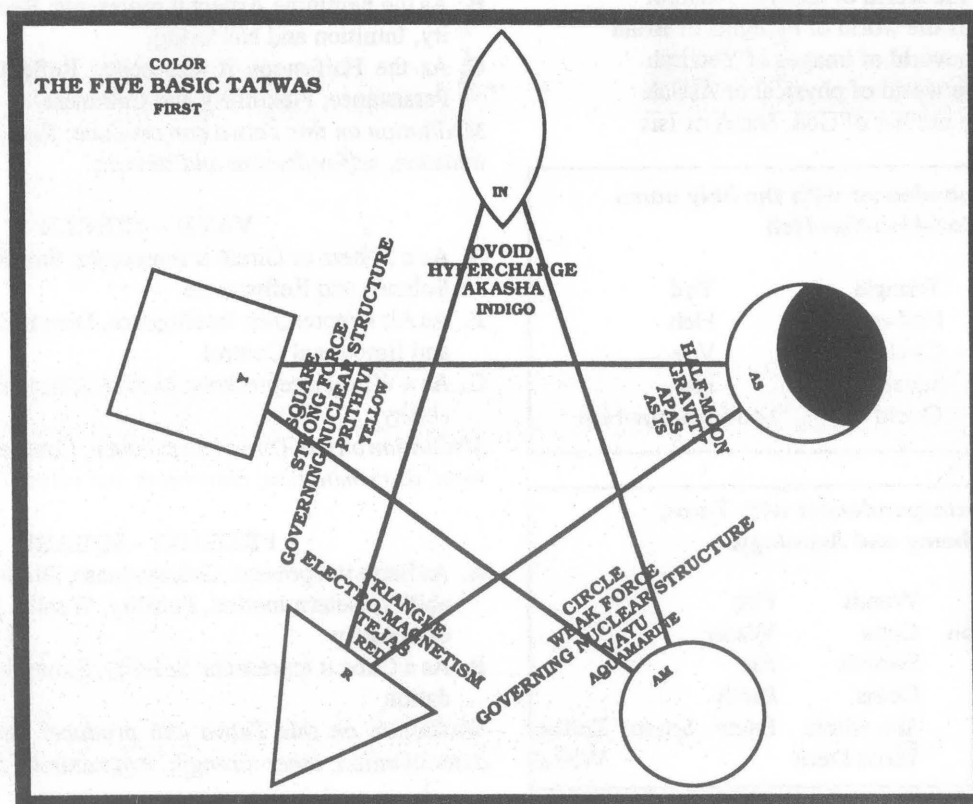
symbology of card number ten. Frequent repetitions of this operation will educate the left brain about these new concepts, rearrange the molecular structure of the body cells, and produce new automatic behavior in the person.

The first set of Tatwas consists of 22 cards. These 22 cards of Tatwa combinations represent all modes of life, designed from the five original Tatwas. For familiarity, convenience and point of reference, the cards are assigned to the ten planets and the twelve zodiac signs. Although the name ascribed to each card is astrological, the heavenly planets and zodiac constellations were not the subject of this study. These names refer to the ten human energy centers called chakras or inner planets and the twelve body zones.

The ten chakras, which have been photographed by Kirlian photography, are energy centers outside of the physical body. An example of this is the chakra Jupiter, corresponding to a group of nerves called the abdominal brain or solar plexus at the base of the sternum. This energy center or inner planet is called Jupiter because of its functions and activities which are related to those attributed to the planet Jupiter in astrology. It is also called Vayu-Apas because of the energies of Vayu and Apas that have combined to create this energy.

Vayu	Apas	Vayu-Apas = Jupiter
1. Versatility	1. Receptivity	1. Outgoing
2. Flexibility	2. Sensitivity	2. Emotional expansion
3. Quick mindedness	3. Persistence	3. Precision, focus
4. Expansion	4. Nurturing	4. Abundance

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SORRAT SESSION AT SKYRIM FARM

by Eugenia Macer-Story

ABSTRACT: Three different approaches, involving three different attitudes and/or levels of observation, are utilized to discuss a seance held at Skyrim Farm in Columbia, Missouri on September 22, 1990. These three different modes of discussion are: reportorial, speculative/experimental and intuitive. It seems that these modes of observation are interdependent and should be used in combination rather than separately.

ONE

Members of the SORRAT group in Missouri regularly consult a television table for advice and guidance. This table will sometimes rap out messages in code and will sometimes guide them to locations in the house and yard where they have laid out a medicine circle on the ground.

On September 22, 1990, this reporter witnessed the group laying hands upon the television table and following it from room to room, then outside into the yard. Once outside, the table first attempted to enter a used car parked on the lawn and then made its way over to a tree located at the center of the medicine circle.

While that group consulted the television table beside the tree, there was a pungent smell of apples which was taken by the group to be a spirit omen and was attributed to the ghostly "Mrs. Beauchamp". No exact "meaning" was attributed to this apple omen but it was evident that the group obtained great pleasure from Beauchamp, who is known in the circle for his ability to provide "apports", of poltergeist occurrences.

Just before the television table decided to return to the house, it approached this reporter, who placed one hand lightly on the surface. The aluminum tray was obviously vibrating in a very unusual manner. Researcher William E. Cox, who for a while attempted to monitor these sessions, has measured the vibration of the table and finds it technically unique. The floor of the house also has vibrated during these gatherings, but most of the session of September 22 was spent outside since it seemed that the spirits preferred to spend an Autumn evening outside in the garden with a used car.

As the table was revving up in the house for its journey outside, it did appear to levitate slightly. This was during the time that the

entire group surrounded it closely, perhaps lending it a charge of energy. As the evening progressed, Alice Neihardt Thompson became the primary liaison between the spirits of the television table and the earthly observers. With hands flat upon the surface of this small table, she followed it out of the house and through the yard and garden, with the group trailing behind her. It is interesting that Ms. Thompson was following this table as one follows an ouija planchette, and that her hands remained always on the surface of this traveling tray.

In conversation, Alice Neihardt Thompson is a matter of fact woman who runs a horse farm about several miles north of Columbia, Missouri. Skyrim Farm, where the sessions are held, was established by her father, Dr. John G. Neihardt, a poet who is best known for his book *Black Elk Speaks*.

Since John Neihardt's death, the Society for Research on Rapport and Telekinesis (SORRAT) has continued to meet at irregular intervals. Ms. Thompson, a lithe woman in her sixties, does maintain a professional stable, and so she integrates the sessions into her ordinary work schedule.

In a book manuscript which she has written under the guidance of the spirits of Skyrim Farm, the lady who hosts these sessions with the tv table stresses two basic issues. The most important point is that the purpose of life is to be happy, and that a person cannot progress without "letting go" of certain mental blocks of a "serious" nature. She also feels that the purpose of sharing an autumn evening with spirits should be the self-development of the individual, not a focus on "psychic research."

TWO

However, psychic researchers have certainly been to Skyrim Farm in an attempt to unravel the mysteries of the situation. Dr. William E. Cox, whose "coffee ground box" remains at the farm, provides a connecting link between traditional lab research and the apple omens of the medicine circle.

Patterns etched in the layer of loose coffee grounds under glass sometimes appear during the Skyrim sessions. Since the surface is under glass, these patterns could not be etched by ordinary means but are assumed to appear as a form of spirit manifestation, of

group psychokinesis.

John Thomas Richards, a SORRAT participant who lives in Rolla, Missouri, has kept a file of snapshots of this "coffee ground minilab" and the various patterns which have appeared in it. This reporter's color snapshot of the pattern which appeared during the September 22, 1990 Skyrim session is now snapshot #58 in Richards' file.

The pattern which was visible at the beginning of the session resembles snapshot #57, which was taken at a session on September 8, 1990, and the pattern which this reporter photographed at the end of the September 22 session was markedly different. Snapshot #58 shows a square etched in the coffee grounds and snapshot #57 shows several checkmarks with four straight lines beside them.

Cox, who did not attend the September 22 session at Skyrim, showed me some of his research techniques on the following morning at John Thomas Richards' home in Rolla. We sat at the kitchen table as Dr. Cox, who was originally assigned to the SORRAT situation by the late Dr. J. B. Rhine, activated a tape recorder and listened to "spirit raps" which were being recorded on the tape by an entity accustomed to communicating in a pre-arranged numerical code.

Cox recorded the numbers of the raps in sequence. He then opened a deck of Zener esp test cards which had been sealed over twenty years before, at the time he was first investigating SORRAT. According to the code, the raps correctly gave the sequence of these cards, which indicates that the entity providing the raps could somehow "know" the sequence inside the sealed box.

This reporter ventured to comment to Cox at the time that a discussion of "how" this had occurred would be too abstruse and rather meaningless. He agreed. The most important facet of the phenomena connected with the Skyrim/SORRAT situation is that paranormal pk and esp events do occur. No one actually knows how an entity could "know" the sequence of these cards.

THREE

Researchers into esp and pk have been criticized by participants in the SORRAT sessions because the analytical eye does often try to "control" events at the Skyrim Farm seance, either by "setting up" tasks for the spirits or by forcing an explanation for unusual occurrences, such as the attempt by the tv tray to enter a used car on September 22, 1990.

This reporter followed the group outside, as they followed Alice Thompson, who was following the tv tray with her hands flat upon its surface. Before progressing to the medi-

cine circle, and the more conventional seance occurrence of an apple odor, THE TABLE ATTEMPTED TO ENTER A USED CAR PARKED IN THE SIDE YARD. This is very unusual. It collided with the driver's door of the car, as if it wanted to get inside and drive. The group following the table, like happy children, took this occurrence for granted and attributed it to "Uncle Dick", the deceased owner of the car. But whether or not this was Uncle Dick, a conscious tv tray which wants to get into a car and drive is a very unique occurrence. It is not exactly like having an entity render spirit raps "on command" for a card experiment.

There is also no way to "prove" that the table led the participants to the car. Any photo of this scene would simply show a group of people surrounding a tv table beside the driver's door of an ordinary vehicle. The significance of this event is within the mind and emotions of the participants.

However, one unusual photo was produced at this event on September 22, 1990. It was taken as the table was walking up the

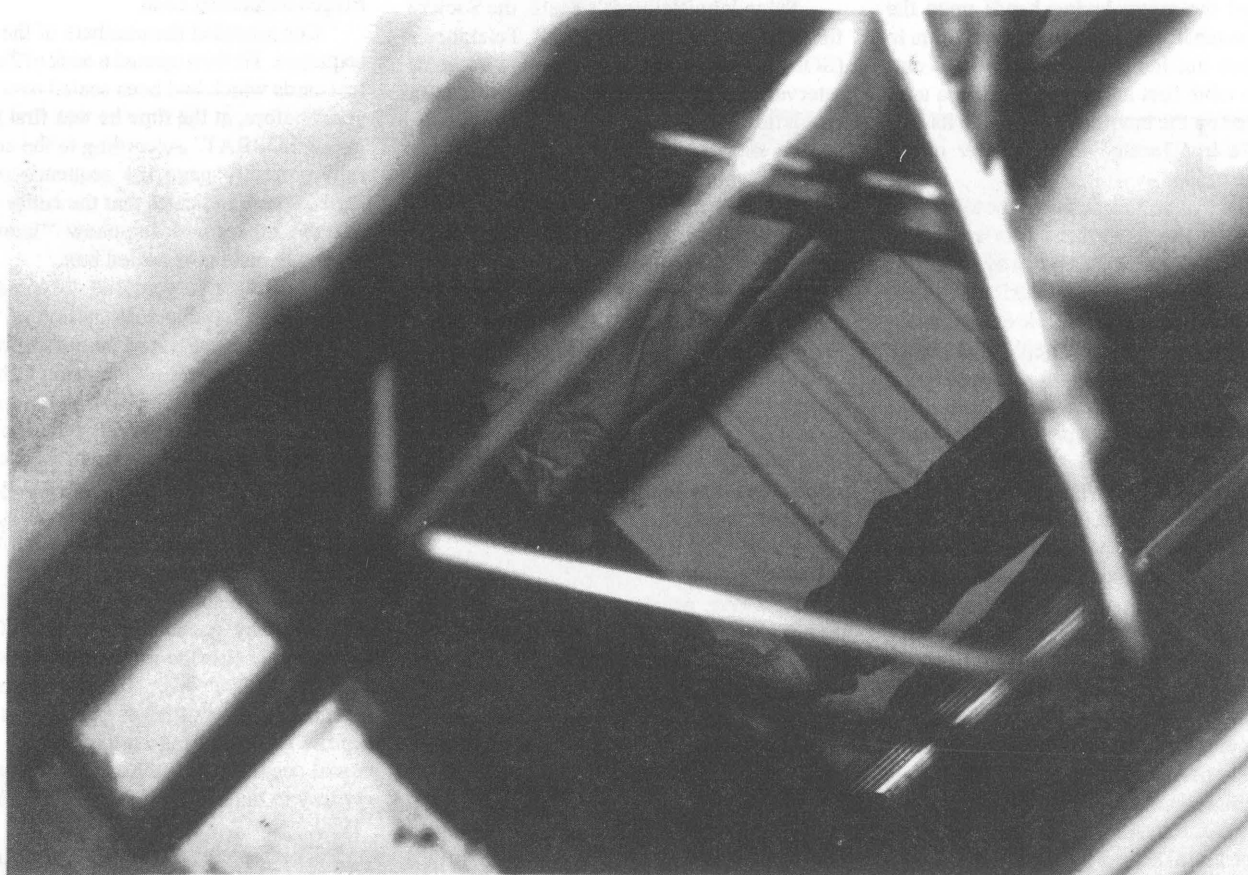
porch steps in order to return to the living room inside. I have no exact recollection of my mental state of emotions as I was taking this particular picture. I do remember that I had an almost "businesslike" attitude toward that sequence of photos, and was simply trying to document Alice Thompson following the tv table up the steps.

The photo which resulted when I got close to the edge of the steps to take a close-up of the little table shows a bright triangle which was formed from a reflection off the top edge of the tv tray and the intersection of two legs. At first, when I glanced at the contact sheet of the black and white pictures all I noticed was this bright triangle. I remarked to an associate that a triangle is the universal symbol for "spirit". But I thought this was just an interesting co-incidence caused by the camera flash.

Because I thought the triangle was an interesting pattern, I had this photo enlarged and duplicated with the ordinary documentary photos of the outdoor section of the seance.

When I looked at the enlargement, I noticed that there is an unusual set of markings in the upper left hand corner, with a "lightning streak" inside the lower border of the haze, and a murky dark band of shadow beneath the lightning streak. I was reminded of the Sioux medicine shirt which is on display in the Museum of Natural History in New York City.

On this shirt there is a pattern of a lightning streak dividing a dark from a lighter area. The standard anthropological interpretation of this pattern is the obvious one: the lightning divides the day from the night and/or divides the realm of the living from the realm of the dead. The shirt on display at the Museum was used for "ghost dances" similar to the ghost dance ceremonies described by Black Elk in his original meeting with poet John Neihardt during the late 1920's. These "ghost dance" ceremonies are now closed to tourists. I feel privileged to have been able to attend the session at Skyrim Farm, and to have experienced this unusual spirit marking on my photo.



DESIGN OF DIAMAGNETIC MATERIALS

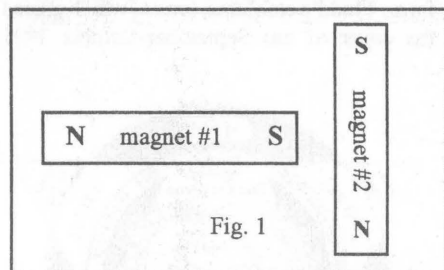
by

MELVIN ERICKSON JR.

In the United States magnetic materials can be found in almost every device in use. However, there is a class of materials that is the opposite of magnetic materials. They are called diamagnetic materials. The fact that they haven't many uses is that they are very weak.

In my studies of natural diamagnetic materials it appears as if they have an unpaired electron in the crystalline structure like magnetic materials do. However, the unpaired electrons in the diamagnetic material instead of aligning with an impinging magnetic field and reinforcing it, they align at right angles to it and repel it. There are three elements that show diamagnetic properties. These are bismuth, tellurium and molybdenum from some sources.

I decided to experiment with iron magnets to see if they could show diamagnetic properties when the magnetic field of the impinging magnet is at right angles to the other magnet. The three

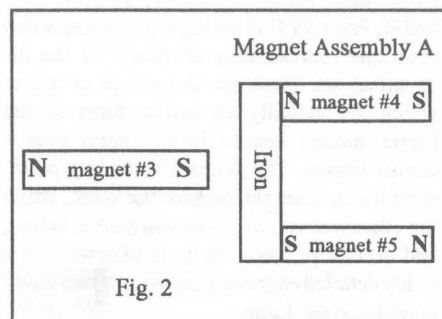


experiments shown here are the results that I have made so far.

In the first experiment, as shown in Figure 1, I placed magnet 1 against magnet 2 as shown in Fig. 1, I noticed that the magnets were not attracted or repelled by each other. This struck me as odd as both of the magnets were made of magnetic material. By putting a sheet of paper over the magnets and sprinkling iron powder on the paper to show the magnetic field, I discovered that the magnetic field from

the south pole of magnet 2 was repelling magnet 1 while the north pole of magnet 2 was attracting magnet 1. Reversing the pole of magnet 1 and reapplying it to magnet 1, the same conditions were observed, however the poles were reversed. I learned later that the external fields of the two magnets were masking the diamagnetic action of magnet 2.

In the second experiment I used mag-

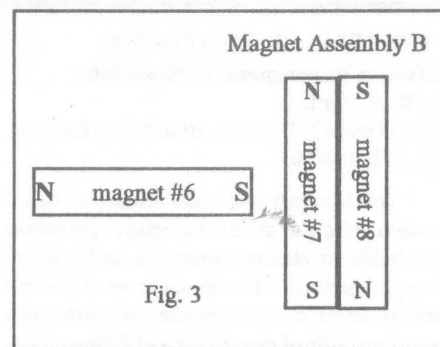


net 3 and magnet assembly A as shown in Fig. 2. When magnet 3 is placed against the iron bar in magnet assembly A, it adhered with about one half of the force than it does when there isn't any magnetic field in it. This shows that the inductance of a coil may be modified by putting a magnetic field in the iron or ferrite core of the coil.

In the third experiment I used magnet 6 and magnet assembly B. Magnet assembly B due to its construction hasn't any external magnetic field. The magnets in magnet assembly B may be any thickness or number as desired. When either pole of magnet 6 is pressed against magnet assembly B, it is repelled. Since these types of diamagnetic materials are stronger than natural diamagnetic materials, they can be used in more devices using natural diamagnetic materials.

As a result of my studies in the three experiments it is shown that when the magnetic fields of two magnets are par-

allel to each other that their attraction or repelling action will be magnetic in nature. If the magnetic fields are at right angles to each other then the repulsion of the magnets will be diamagnetic in na-



ture. If the repulsion of a magnet between magnetic forces and diamagnetic forces is compared it will be found that the magnetic force repels the magnets twice as far as the diamagnetic force does.

With an understanding of what produces diamagnetic materials, it is possible to produce more types of natural diamagnetic materials. This is shown in the discovery that molybdenum from some sources shows diamagnetic properties while from other sources it doesn't. This has been attributed to the fact that there are trace elements in the molybdenum that cause this action.

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BOOK REVIEWS

by
Michael Theroux

*HOMEMADE LIGHTNING

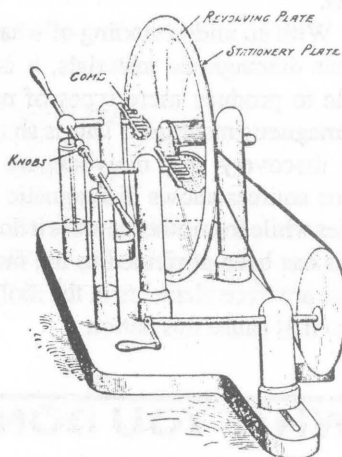
Creative Experiments in Electricity

by R. A. Ford.

\$14.95 from Tab Books, Blue Ridge Summit, PA 17294-0850.

This is a very welcome volume of information in light of all the importance placed on the fields of electromagnetism and magnetism in general. Electrostatic or dielectric energy, as we know, is the life-giving (not life negating) side of electricity and little emphasis has been placed on this area of research until recently.

In this book Mr. Ford has, through years of hands-on experience, laid the ground plan for all researchers in the realm of electrostatic energy. Mr. Ford first details the early historical development of electrostatic generators from Winter to Wimshurst and then continues



with a complete description of his own generator including extensive diagrams for those interested in building the apparatus. The most interesting section of the book is of course the specific experiments one may perform with these generators. Of special note are the sections on Electrohorticulture, Electrotherapeutics, Countergravitation, and Unusual Electric Discharges.

The science of electrostatics is altogether an etheric science which may be why, because of its spiritually revealing nature, orthodox techno-science has continued to overlook and cast aside this exciting dominion of investigation. For anyone interested in exploring Nature's finer side of electricity, Mr. Ford's treatise is a wealth of knowledge that should be in the hands of every serious researcher.

*ATALANTA FUGIENS

An Edition of the Emblems, Fugues, and Epigrams

translated and edited by Joscelyn Godwin. Book and cassette tape \$26.00 from Phanes Press, PO Box 6114, Grand Rapids, Michigan 49516.

Si quod agens fuerit naturae, mittit in orbem Vires atque suas multiplicare cupit...

If that which acts in nature sends to earth Its powers, it loves to see them multiply.

Thus opens Epigram 18 of Atalanta Fugiens. In this monumental work by the Renaissance alchemist Michael Maier (1568-1622), one will find 50 fugues, emblems and epigrams representing all facets of the alchemical art. First, are the pieces of music which are actually an earlier form of the fugue, having canons in two parts over a cantus firmus. The cantus firmus is a plain-song theme used throughout the work, while the other two voices are woven above, below, and around it. Each fugue is followed by a richly detailed engraving and an epigram translated from the Latin.

One of the high points in this book is the introductory essay by Hildemarie Streich, which to me is the most complete and practical discourse of musical philosophy I have ever read. Translated from a paper presented to the Eranos conference in 1973, Dr Streich's introduction explains the meaning of music in an extraordinary fashion of metaphysical, mythological and musical dexterity, untangling music's illusory body of wisdom. She then goes on to share a fascinating interpretation of the alchemical allegory contained in Maier's work.

As for the cassette tape of the musical examples one may find them somewhat repetitive and liturgical sounding but the nature of these pieces is not for an entertainment, but a contemplative purpose. To quote Joscelyn Godwin from the preface; "Unlike commercial recordings of early music,...this recording proceeds from beginning to end in an entirely objective manner. This enables the music to create and sustain a mood in which repetition and even monotony are means for the deepening of concentration." I personally found the recording to be an amazing tool for meditation upon the mystical foundations of alchemical counterpoint. Also, the recording quality and professionalism of the vocalists

could hardly be surpassed.

Finally, we might summarize the prodigious quality of this work in light of its usefulness in a contemporary setting with another quote from the preface; "Just as the book itself spreads over the boundaries that the modern mind sets up between a musical score, a picture book, and a textbook in chemistry, so the occasion of its use is only imaginable if one can somehow fuse the categories of parlor-game, amateur chamber music, and esoteric discussion group." Anyone even remotely interested in this subject matter would do well to own this timeless work.

*ROBERT FLUDD

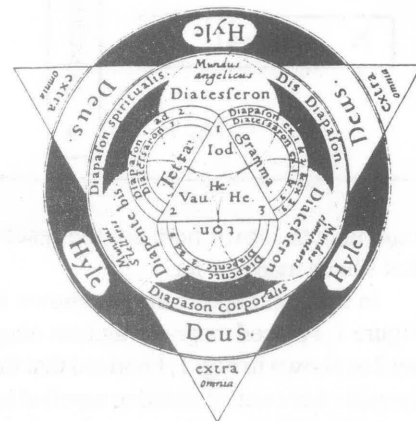
Hermetic Philosopher and Surveyor of Two Worlds

by Joscelyn Godwin.

\$11.95 from Phanes Press, PO Box 6114, Grand Rapids, Michigan 49516.

Robert Fludd was one of the last of the true Renaissance philosophers who combined the arts and sciences into a workable cosmology. In the biographical and historical introduction, we find Fludd to be an adept occultist, inventor, geometer, musician, engineer and, among other things, a Paracelsian physician. As a Paracelsian physician he was dedicated to the alchemical treatment of the physical as well as the subtle bodies, treating like with like, which is the basis of homeopathy today.

In all of Fludd's works his greatest contributions are the diagrammatic representations summarizing his philosophy in emblematic form. Fludd's emblems, (one of which graced the cover of our September-October 1991



journal) comprise a major portion of the genuine mandalas of the West, and fill the second half of this book with annotations from the author. These engravings show Fludd's genius for graphic expression of cosmological

ideas as well as his enlightened recognition of the complete universality of truth. Highly recommended.

***QUADRATURE OF THE CIRCLE** **Revealing the True Value of Pi**

by George R. Hull.

\$14.95, from George R. Hull, 2954 SE Blue Bird Dr., Hillsboro, OR 97123.

One used to think that the idea of squaring the circle was an impossibility. Because the circle is based on the incommensurable ratio expressed as Pi, one could only draw a square that approximated the circle's area or circumference. Alas, Mr. Hull has the answer to this age old problem, but before we examine his conclusions, let us once again return to the age



of Renaissance thought.

The early philosopher knew that there were many dualities and deviations which exist in nature; that qualitative and quantitative ideas coexist in the unification of macrocosm and microcosm. Thus, the image of the squared circle was a powerful alchemical symbol for contemplation, glyphically representing nature's true expression of will... and is still valid today.

These Renaissance sages clearly under-

stood that to experience these higher concepts first, one would then attain knowledge of the baser but necessary material things associated with their art.

In this book Mr. Hull tirelessly goes through figure after figure of diagrams and calculations in order to 'explain away the mysteries' and reveal the true value of Pi. His research is based on an obscure work authored by John A. Parker, published in 1874. According to Hull, "Mr. Parker developed his original process in 1851 and spent 30 years working on and presenting his findings."

Mr. Hull states that the exact and correct value of Pi is 20,612 parts of circumference to 6,561 parts of diameter, which he says is slightly larger than the accepted value of Pi. His formula takes 'a leap of faith' as he calls it, by rounding up one of the figures in the calculation to the next highest whole number. This is a step in the right direction because it determines that Pi is not an irrational number; that it is one of fixed value. But the necessity of such calculations is questionable as we would more likely do just as well as the ancient mathematicians using the simple figure of $22/7$.

In view of the previously mentioned Renaissance wisdom, we might summarize by saying that this work (in the most appropriate proportional terms) is to sacred geometry what the puffers were to true alchemy. But one should still draw his/her own conclusions regarding this somewhat tedious but altogether fascinating book.

***CROP CIRCLE SECRETS**

edited by Donald Cyr with James S. Brett, Michael Mideke, Linda Karen Miller, David J. Ride, and Andrew Rothovius.

\$8.00 available from Stonehenge Viewpoint, 2261 Las Positas, Santa Barbara, CA 93105

This book tries to explain just how crop circles are formed and poses several interesting theories. Looking at the crop circle enigma as I do (from a semiotic and then telluric

William Gordon Allen's

OVERLORDS **OF THE UFO**

Produced by a 20-year veteran of TV and radio news, this scientific documentary brings into perspective the greatest mystery of our time -- the UFO. Mysterious happenings have been occurring all through recorded history, but have greatly accelerated in the last 40 years: Our fastest jets are paced and passed by these enigmatic craft; They have been sighted and photographed by over 25 astronauts; Satellites have mysteriously disappeared from orbit; Bizarre mutilations of livestock have puzzled researchers; A pond is found frozen during warm weather after a UFO is sighted over it; Abductions and examinations of ordinary people going about their business have taken place. All authoritative sources in academia and science are silent. The government is close-mouthed. Airline pilot's jobs are threatened if they publicly report what they have seen. From what world or etheric dimension do these enigmatic craft emerge? What new forms of knowledge do they portend? What realities lie beyond our present human knowledge? Who are the Overlords of the UFO? This movie, first released in 1976, is still excitingly important today. 95 MINUTES, COLOR VHS..... **\$29.95**
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approach) I noticed at once the importance placed on the whistler phenomenon as a possible explanation for the circles. These "whistlers" are said to come from lightning storms on one part of the globe, and apparently travel high above the atmosphere, impinging upon a distant location thousands of miles away. What is interesting is that the author here speaks of a certain physicist who in the early 1900s, heard the whistlers while listening to telephone conversations - via the use of two prods driven into the ground!

This is a very well thought out scientific treatise and it is also a very entertaining book to read. Of special significance is the extensive canopy theory information. This book should be a part of every crop circle enthusiast's library.

DISTANT VISION

ROMANCE AND DISCOVERY ON AN INVISIBLE FRONTIER

by Elma G. Farnsworth

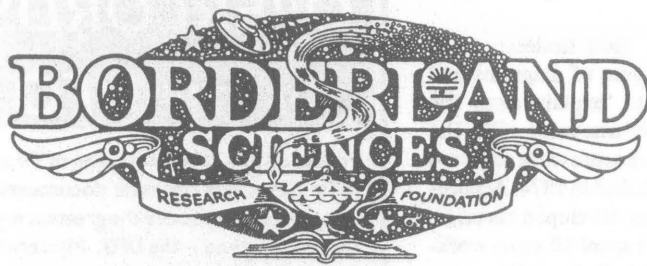
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LETTERS

OPERATION CLINCHER UPDATE

Greetings! Be advised S. Cal smog year 1991 recorded 46 Alert Days vs. all time low of 41 set by CLINCHER. A 12% INCREASE. Since AQMD asserted "tougher regulations" produced the 1990 record, how do they explain that with still more regulations, plus the coolest summer on record due to Kuwaiti fires & Pinatubo ash, they still could not beat the CLINCHER epic. Tally Ho
Trevor James Constable
Hauula, Hawaii

In the OPERATION CLINCHER article, May-June 1991 JBR, Trevor points out that "CLINCHER will not really be completed until 31 October 1991." Those of you with the original article can go and add this updated info to the graph on page 3. The statistical evidence indicates that Trevor's etheric anti-smog engineering projects have consistently raised the air quality in the Los Angeles Basin. As for tougher regulations? We have not heard from the AQMD as to why the "tougher regulations" did not work this year.

PSIONIC GENERATORS

You indicated in a BSRF journal several months ago that you were unable to assist anyone in finding a copy of The Psionic Generator Pattern Book by John P. Boyle. After trying what were for me the usual methods of trying to get a copy and failing I discovered a very obvious method of obtaining the work. The local library ordered up a copy for me on inter library loan.

In commenting on this book you indicated that you recalled it as being largely a collection of patterns which one could cut out and assemble so as to make a series of different devices. Your memory was cor-

rect on this. Although the book contains brief discussions pertaining to various types of devices corresponding to or approximating those represented by the patterns in addition to the patterns it does not satisfy my desires for information.

There is a great deal which could have been

said by the author as to the issue of what aspects of the patterns are the result of purely functional considerations as opposed to esthetic considerations. It seems that the text is probably incomplete relative to what the author knew relative to the functioning of these devices.

At least at this point it seems probable that the shapes of all the patterns disclosed in the book are based entirely on functional considerations, but that the relative sizes of the generators in the text are purely a result of the author desiring to provide patterns which "fit" in a book dimensioned so as to be reasonably acceptable to book dealers and libraries.

In reading the book by Janet & Colin Bord entitled The Secret Country I ran across a reference to devices invented by Robert Pavlita. In checking the well known Psychic Discoveries Behind the Iron Curtain text I ran into a generalized discussion of this man and his work which disclosed nothing as to the nature or operation of his devices although it did include a superficial description of several of them. Do you have any information relative to them? If not perhaps you might publish this in the Journal to see if any of the readers of it might have any information on these devices.

If no one has any information I can try to run a computer search to see what patents turn up in Mr. Pavlita's name. The Psychic Discoveries text indicated that at the time it was written Mr. Pavlita was not giving out information because of his patent situation. I am doubtful if this approach will pay off since I doubt if the appropriate data base will go back far enough to pick up any patents in his name.

Thanks for your cooperation.

Best Regards,
Ed O'Brian
Huntington Beach, CA

Thank you for your input on this matter. This is a primary area of research for which we get many requests, but are able to supply little info. Any pertinent info that BSRF members send in will be published in this journal.

IMPLOSION INFO SOUGHT

I was recently given a copy of your compilation: "Implosion - Viktor Schauberger and the Path of Natural Energy". I was particularly interested in the article: "Integration of the Lifeblood of the Earth" by Ellen V. Wilmont Ware. One of the reasons for my interest in this work was the fact that the author comes from an area not very far from where I live. However, I am unable, so far to find out anything about her. I wonder if you have any further details about her and in particular whether she is still alive. I should also like to know whether the work "Pendulum" is still published. Is it an American or a British periodical? I really would appreciate any further details about either of these topics and look forward to hearing from you.

Hugh C. Dagnall
Bristol, ENGLAND

In 1986 and 1987 we searched for more information on Wilmont Ware's work and came up dry. The Pendulum is a British periodical long out of print. Perhaps one of our members has further knowledge of Ware's work.

BIG BANG OR ETHER?

In the July-August 1991 Journal author Michael Baran tried to link etheric physics to the well-accepted big bang theory. What's wrong is that the big bang theory precludes the possibility that cosmologies stated by BSRF are worthy of consideration. Theories of etheric physics would be impossible under the big bang, since that theory states that there are only four forces of nature. I'm against the big bang theory, since it limits the theoretical possibilities of major discoveries in astronomy, archeology and exobiology. The limits imposed have slowed the growth in scientific progress and breakthroughs.

In recent years two researchers have played a major role challenging the big bang. The first is author and graduate school dropout Eric J. Lerner who wrote "The Big Bang Never Happened" (New York Times Books, \$21.95). Lerner feels it took 80-100 billion years to build the vast structures in the intergalactic universe. The 80-100 billion year figure is far longer than the big bang's 15 billion years. The solution Eric J. Lerner believes in, is Swedish researcher Hannes Alfvén's concept that elec-

trical rather than gravitational forces shaped the universe. The second researcher is William R. Corliss of The Sourcebook Project who publishes catalogs, handbooks and a newsletter called "Science Frontiers". Corliss promotes theorists like Dewey Larson and publishes alternative ideas to the big bang in his newsletter. One example he published is Jayant Narlikar's idea that redshifts are accurate only in galaxies, but not in quasars, because the particles have no mass.

An ancient calender can also challenge the big bang timetable. The dates on the Maya calender go back quadrillions of years, far beyond 15 billion years.

I'm interested if you are going to have any future BSRF Journals talk about alternatives to the Big Bang, mention other publications that do and are there any attempts by dowsing to map the universe beyond the 20 billion light-year level?

B. Greenman
Chicago, IL

** I'd like to comment on a few points of Gerry Vassilatos' review of "The Ether of Space" in BSRF Journal's Sept-Oct issue (pg 21). He notes that Oliver Lodge, Michelson, and other turn-of-the-century-ether-experimenters found that parameters related to earth-motion, such as measurements of possible effects of planetary motions on photon-quantum light-fringe shifts, failed to affect what they termed etheric drifts. Such drift effects were invariably detected with "cosmical" motions, and the angularity of these effects on etheric drift always "seemed to descend from Space." I'd like to point out that this is the kind of pattern one would find with the ether-model of gravity described in my article in BSRF Journal's July-Aug.'91 issue (pg 7). With such a gravity model, the old observations of etheric "descent from space" would actually represent observations of gravitational effects.

In my model, the natural magnetic fields associated with bodies like the earth are largely etheric rather than "electronic," and are reducible, ultimately and simply, to the magnetic polarization and subsequent field-energization of elemental etheric particles, causing the latter to magnetically-aggregate into larger particle-systems like photons, protons, and atoms. In this way, the ether in our realm at the earth's surface would be constantly undergoing a "consumption" and thinning-out, compared to the state of the ether in Space, where the etheric elements, or "etherons," would be unmagnetized and have no ten-

dency to resonantly-aggregate. Thus, in Space the ether would display more of a "presence" than near the relatively "quantized" earth, so that positive results from experiments on ether drift would be expected in cosmic Space, and not near the earth, as was found.

The ether in Space would contain a larger number of smaller particles (elemental etherons) than the ether near the earth, where etherons are constantly being consumed to form larger particles. A larger number of smaller particles has a greater surface area than a smaller number of larger particles, and occupies more space. Thus etherons form Space would be constantly trying to fill the volumetric void in the ether near the planet, "descending" toward the earth, exerting the force of gravity.

It seems to me that we would need to simulate the cosmic experiments of Lodge, Michelson, et al, to develop an ether model that can really challenge the photon-electron scale relativity-mechanics paradigms of physics.

Michael Baran
Brockton, MA

Thanks to you both for your viewpoints. It would seem to me that a review of the ether theories indicates that they preclude the big bang. However, we must consider that this is all still theory. We do not publish only what we agree with, we publish on researches into many areas. Michael Baran has been working on his theory for years and it is important to give him a platform to present it. Better it is that we allow this to be worked out over time via articles and letters. Only then can we work towards a better understanding of our universe. We are always open to material on this subject and have *The Body Beta* in this issue, and more ether articles in the works for future issues. We have mentioned William Corliss' Sourcebook Project (P.O. Box 107, Glen Arm, MD 21057) many times. He has collected over a dozen thick volumes of scientific data that does not fit the standard theories.

FIELD TEST REPORTS?

I would like to see more reader feedback on their field-test results from the various devices mentioned in your Journal. I want to know, for example, did anybody else have any success in getting plants to grow in the dark with the use of solar collectors (Hieronymus article I believe)? How about the latest MWO? or the ELF generator?

B. Blyton
Lexington, KY

Good questions. At HQ here we often lament that we hear very little back on all these various aspects of research. What we get we publish. We certainly hope people experiment for themselves and not just take for granted that we are correct, because that may not be the case. How about it folks? Let us hear more of your experiments, whether they worked or didn't. It will be of benefit for all.

DR. CLARENCE EARLE

I have been getting books from you since the 50s when Meade Layne was still with us and I have every one of them. Keep up the good work. Bless you all.

Have you any data on Dr. Clarence Earle, he was from Maryland, Baltimore I think. He had one or two machines that cured cancer (his other machine is in Canada) with high frequency using a tantalum plate over the size of the cancer and calibrating high frequency to a specific rate. After several treatments the cancer was gone. Did this for 50 years. When he died in the 60s (I think) I lost track of the machine and his company. The AMA would not co-operate with him as usual but he cured many anyhow.

I would appreciate any information you can obtain for me about him and the machine. His summer home was in Madeira Beach, Florida.

Mary Fort
Jacksonville, FL

MYSTERIOUS VIBRATIONS!

For the past seven weeks there has been an audible and palpable sounding vibration in the atmosphere. A few of us first noticed this in Harlemville, NY. Since that time I have personally tracked it about five hours North-South and 2 hours East-West. Between here (Princeton, NJ) and North of Pittsfield, MA North-South and going West to Oneonta, NY to Sheffield, MA moving East. Through conversations it has been reported to me by a few people up as far as Montpelier, VT, about 9-10 hours from here. One of these people is a scientist who works for the Union of Concerned Scientists in Cambridge, MA but has a cabin in Vermont.

It is most apparent late in the evening or early in the morning and can be felt-heard 'ringing' through the air. It is most intense in the interior of buildings or within a standing, enclosed car. It seems as if these act somewhat as echo chambers or intensify the sound and/or vibration. Varied hypotheses have come forward, all still inconclusive. I would be grateful if any of you might be disposed to turn some attention to

this phenomenon to see if you can pick it up and if so, what ideas you might have as to its cause. Thus far it seems to have manifested in increased nervousness, sleeplessness, irritability in a number of people. Whether the plethora of electromagnetic activity over the east coast (if it is confined to the east coast?) has hit a kind of critical mass situation is one hypothesis offered by various people. This is completely inconclusive.

I would be grateful for any thoughts or impressions you could share with me about this, especially if you notice some of this activity in other parts of the country. Thank you.

Paul Platt, Box 233A - RD 2,
Ghent, NY 12075, phone (518) 672-7184

RECEIVED

* **SHAVERTRON** — *The Only Source of Post-Deluge Shaverania*, 325 Coghlan Street, Vallejo, CA 94590. Just received Number 27, a real surprise as issue 26 came out around 1986 when editor Richard Toronto moved on to other things. Shavertron is dedicated to the Shaver Mystery to the 'uninitiated' this is the story of Richard Shaver, who wrote many articles for *Amazing Stories* in the 1940s and 50s on the cavern world beneath our feet. These stories alluded to a past ancient civilization which moved into the caverns to escape cataclysmic changes on the surface of earth. They were presented as science fiction, but then Shaver claimed that they were true stories, gleaned from racial memory. When this was presented to the public many people wrote in with corroborating info. Shavertron was always an entertaining and informative 'fanzine' which was a main connection in the now-defunct hollow earth research field. Well, we're glad to see Toronto back rolling again. This issue has more of the writings (or ravings as some would say) of Shaver, as well as a couple of interesting interviews, one with UFO 'researcher' James Moseley, and one with Vincent Gaddis, who many consider to be the dean of post-Fort fortean research. Issues are \$5 each, payable to R. Toronto.

* **NEXUS** *Alternative News*, (Vol. 2, No. 4.), c/- Post Office, Mapleton, Qld Australia 4560. This is an excellent resource from up in the southern hemisphere. Interesting articles this issue include: Interpol Exposed (they're not what you think!); Secrets of Radionics (insightful series); Crop Circles Explained (interesting interpretation of the circles from the standpoint of high energy physics); as well as many other interesting tidbits. Well worth reading. See ad on page 23 for rates.

* **DEUTSCHE PHYSIK** — *International Journal on Fundamental Physics*, East-West Publishers, Morellenfeldgasse 16, A-8010 Graz, Austria. Vol 1, No. 1, Jan-Mar 1992, just in from editor Stefan Marinov of the Institute for Fundamental Physics. Articles: New measurement of the Earth's absolute velocity with the help of the "coupled shutters" experiment; The self-accelerating generator VENETIN COLIU; and The physical essence of Albert Sergodsky's perpetual motion machine of second kind. "Deutsche Physik is dedicated to fundamental physics and, besides mechanics and thermodynamics, its principal area of interest will be space-time physics and electromagnetism. The reason for concentrating the attention on 'classical physics' is that I (Marinov) want to make DP a speaking-tube for these scarce scientists who have realized that: 1. The principle of relativity is wrong. 2. The principle of equivalence is wrong., etc..." This is first class research from one of Europe's top alternative thinkers. DP is in English and rates are for one issue DM20 (for US\$ divide by 2), DM40 for corporations; Airmail ad DM10, yearly sub is DM80/individuals, DM160/corporations. Payable by cash in registered letter. Phone 0316/377093, Fax 0316/835015.

* **THE MINOAN PHAISTOS HIEROGLYPHIC CLAY DISC** by Ted Powell, from *Would You Believe* Publication, HC #80 - Box 156, Marshall AR 72650. This is an analysis of two Minoan discs discovered on July 3, 1902 by Dr. Pernier. They are estimated to be at least 3,700 years old, and are so far untranslated. Ted Powell offers his insights into translation using a number of innovative insights. What's the story? You might not get the book if I told you. \$4.50 + P&H. Also from the same source: *Would You Believe?* The Controversial Phenomena Magazine (issue #38) with articles on Baal, Bloody god of Phoenicia; Luna-cy; Strange Cult of the Manicheans; Werewolves in Thailand? and enough other far out material to keep you thinking for hours. Single copy \$3.25, four issues/\$12 + \$6 for overseas airmail.

* **FRONTIER PERSPECTIVES**, Spring/Summer 1991 issue from The Center For Frontier Sciences, Temple University, Ritter Hall 003-00, Philadelphia, PA 19122. Provides a welcome trend in the academic circles. Covers framework-stretching concepts in modern science. Covers such heretical subjects as bio-electricity and homeopathy. This is a good one to keep track of as sooner or later borderland concepts will be claimed by the mainstream (and we can go back to gardening!). Two issues per year for \$25.

* **FORTEAN TIMES** (issue No. 59) 20 Paul St., Frome, Somerset BA11 1DX, England. Everything grinds to a halt when FT appears in the mailbox. Always a mind-boggling collection of weird facts, strange stories, and reviews of fortean literature. A first class dose of reality. Good article in this one on the US UFO scene, pointing out that the stories of MJ-12, grey aliens and such are matters of belief and NOT fact. Also, a letter from a reader on observations leading him to suspect that the coloration of the landscape has a major impact on the weather! FT shows what skeptics are really supposed to be like. US\$30, checks/money orders payable to John Brown Publishing, Ltd.

* **STRANGE MAGAZINE** (issue No. 8), P.O. Box 2246, Rockville, MD 20852. A well-done magazine of the strange. Current issue has info on South American humanoid sightings, Pre-Colombian Japanese contacts; Central European fortean falls; Crop Circles; Ghosts; Weird personal encounters and more. \$17.95 for 4 issues

CONTACTS

* **ALTERNATIVE PUBLISHING BUSINESS FOR SALE**. The venerable Health Research, of Mokelumne Hill, California is up for sale. The owners wish to retire and want to see the business carried on. HR publishes over 1,000 titles on alternative subjects, Health, Radionics, Occult, Metaphysical, etc. Buildings, land and presses are included. Interested principals can contact Marsha Bentley or Donna Johanson c/- Steele Realtors, P.O. Box 210, Jackson CA 95642. [Dr. R. G. Wilborn has done a tremendous service to aware, thinking humans by keeping alternative avenues of thought open. HR's booklist is a goldmine of great materials that has been of inestimable value to researchers the world over. TJB] If any Borderlanders are interested in this venture, and/or interested in creating solid open minded information channels please give Tom Brown a call at Borderland to discuss possibilities.

* **Looking for other hams** to start a BSRF Net. Dave NT9E

* **FREE POSTERS** - "The Pure Land" of Amitabha Buddha. These posters are a type of cloud picture considered as a window for meditation. "Namu Amitabha Buddha" is often chanted or repeated while gazing into the realm. Send \$1 for shipping to: Frank Moore, 517 Solano St., Bryte, CA 95605

* **THE TESLIANA SOCIETY** - Durmitorska

2, 11000 Belgrade, Yugoslavia; tel. (011)187-144/124. The Tesla Society was formed around a group of intellectuals in Belgrade. The main goal of the Society is to promote new ideas and concepts on the frontiers of human knowledge and in various fields of research. The intention of their proposed publication is to promote new ideas and results of research in various domains of the human spirit. "As a converging point of new ideas, views and theories, our journal would confront the known and the unknown, enabling the verification of even the least probable hypotheses." Topics covered: economy, theoretical physics, archaeology, cosmology, history and theory of art, etc.*

NEWS FROM THE BORDERLAND

Compilation and Commentary by Tom Brown

* NON-BIOLOGICAL ORIGIN OF OIL.

While conventional theory holds that oil is the remains of past life, and can be found only in sedimentary basins, Dr Thomas Gold has been overseeing drilling teams at Sweden's Siljan Ring "a 40 km-wide (25 mile) meteorite crater... about the last place most oilmen would expect to strike lucky." None-the-less Dr. Gold has struck oil and believes that oil is abiogenic (non-fossil) and was trapped deep inside the earth when it was formed. The biological imprints would be through seepage upwards into organic sediments. Right or wrong? Well, he's struck oil! But still "Few give Dr Gold much of a chance, but then a lot of vested interest are involved. Not only would geologists have to rethink their fossil-fuel theories; oil companies might be faced with the prospect of a world awash with oil." (source: **The Economist**, October 19th, 1991). Readers of **Science Frontiers Newsletter** from The Sourcebook Project have been aware of this alternative theory for years.

* **WHAT EVER HAPPENED TO AL** Hubbard who in 1919 invented the Hubbard Energy Transformer which he used to power a boat around Portico Bay in Seattle, Washington? He sold 50% of the rights to the Radium Corporation of Pittsburgh, PA which effectively buried the invention. Next Hubbard took a job as a Seattle taxi driver, and with sophisticated ship to shore communications hidden in his cab he aided booze runners during the Prohibition, for which he did 18 months in prison. He then worked for Allen Dulles Office of Strategic Services (OSS) the forerunner of the CIA, and was also peripherally involved with the Manhattan Project. He ran guns for the OSS during WWII, and afterwards founded a charter boat operation. "By

1950 he was scientific director of the Uranium Corporation of Vancouver, owned his own fleet of aircraft, a 100 foot yacht and a Canadian island." Shortly after that he became quite enamored with the effects of LSD on the consciousness, at one point being in physical control of most of the LSD on the planet! He became known as the "Johnny Appleseed of LSD" to those few who were aware of his activities, and was in touch with Aldous Huxley (who wrote **HEAVEN AND HELL** after an LSD trip with Hubbard), and Timothy Leary (who he wanted to kill for what he felt was an improper presentation of LSD to the public), among many others including a "prominent Monsignor of the Catholic Church." He became Dr. Alfred Hubbard and began working with Ross MacLean of the Hollywood Hospital in New Westminster Canada, where LSD was used clinically with astounding success in treating substance dependent psychotics. It is very possible that Hubbard was connected with MK-ULTRA, the CIA drug and electronic mind control project. Any records linking him were supposedly destroyed. This all comes from an article in **High Times** magazine, November 1991, and in that magazine the emphasis is naturally on the drug angle. There is scant info on his further inventive work. In 1968 he sold his island and "filled a number of boats with the antiquated electronics used in his eccentric nuclear experiments..." Did Hubbard invent a free energy device? In all likelihood it was some sort of nuclear energy device, as all references to his work imply such. (Breeder reactors are over-unity if you don't mind 25,000 years of deadly poisoning following in their wake). It seems as though Alfred M. Hubbard's greatest impression on this planet was to work on the alteration of consciousness rather than the alteration of energy policy.

* FUROR OVER EGYPTIAN STATUES.

Hamilton, New Zealand is abuzz with the controversy over two statues, of Sebek and Horus, sculpted in concrete by John Taris for the Sebek Court, in Hamilton Gardens. Evangelical and fundamentalist churches have gone so far as to imply that erecting these statues will invite dark forces that will encourage drug use, child abuse and sexual depravity. Local debate "centres on whether the statues are gods, and if they are whether they constitute a threat to the city's well-being because God's blessing may be withdrawn if the statues are put up." This must be great entertainment for the locals! (credit: Tony Stewart, Auckland)

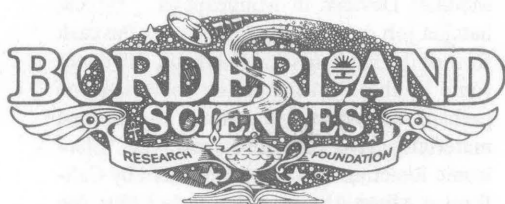
* **MACHINES THAT HEAL/STEAL** in the Costco Connection/ April 1991. An article on

Bob McCoy of the Museum of Questionable Medical Devices in Minneapolis. Typical hatchet job on anything threatening the cash flow of the medical establishment. No doubt some of these machines are useless, some perhaps dangerous, but serious, documented materials get roasted with the rest. The "Electronic Reactors of Abrams, invented by Californian Albert Abrams in the early 1900s, use radio waves to read vibrations in a patient's blood, saliva, or urine." This is quackery to some, but an objective review of the facts indicates that Abrams should be credited with one of the greatest medical discoveries of our age rather than being perpetually ridiculed.

* **NEW AGE ELECTRONICS**, an editorial in **POPULAR COMMUNICATIONS** by Tom Kneitel K2AES, is a review of Super Science's catalog of MWOs, "Rife" Generators, ELF Generators and UFO Detectors. He is definitely fair about the matter, making light of it, but also stating that it is beyond his general scope. He also points out that his chakras are kept in tune by the output of his ham radio equipment. (credit: Dennis Kier)

* **NUCLEAR ENERGY TIED TO ANCIENT EGYPT.** UPI dispatch from Cairo in the San Diego Evening Tribune, July 5, 1991: Ancient Egyptians may have used nuclear energy in the form of alpha, beta and gamma rays in the mummification process. The daily Egyptian Gazette quoted Dr. Saeed Muhammed Thabet, a professor at Cairo University's Medical School, as saying he stumbled on the find while conducting studies at the Mummy Gallery at the Cairo Archaeological Museum. "A sudden movement of the pointer of a radiometer he was holding indicated that the mummies emit rays," the Gazette said. "Experiments... confirmed the presence of the rays. More evidence emerged when a camera film was destroyed by exposure to the radiation." Inscriptions on the door of the tomb of an ancient Egyptian pharaoh indicate that ancient Egyptians used a caustic substance in the mummification process. "Drawings on the tomb wall confirm this and contain an explicit display of burns that can be caused by direct application of the substance." (credit: Chris Roberts)

* **A PREHISTORIC GROTTO** containing hundreds of paintings has been discovered more than 120 ft under water by a diver near Marseille, the French cultural ministry announced. The discovery was made in the summer but it was kept secret to allow experts to authenticate the paintings, which are at least 10,000 years old. **Manchester Guardian Weekly**, October 27, 1991



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